

R&D & Innovation in Modern SSI Product Clusters of India

An Empirical & Analytical Enquiry

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Volume II

Tabulated Data from Questionnaires I & II

Final Report

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Preface

Over the years the Small -Scale Industries (SSI) sector in India has emerged as a dynamic and vibrant partner in the process of development. It has nurtured and sustained entrepreneurial talent, been a major source of employment, and has contributed to the growth of exports. However, changes in business environment because of globalisation, heightened competition and changes in technologies at the national and international levels have altered the landscape for these enterprises. Many opportunities now derive from doing business in fundamentally new ways.

In today's intensive competitive environment long run growth and at times even survival requires a continuous innovation; Research and Development – systematic and creative work undertaken by SSIs to increase the stock of knowledge and the use of this knowledge to derive new applications – is often the route to evolve sustainable, institutionalised and appropriable technological innovations.

In spite of SSI sectors crucial and significant role in the Indian economy no information base exists on aspects of Research and Development in the small-scale industries sector. The idea to fill the information gap through a study was mooted by the National Science and Technology Management Information System (NSTMIS); DST. This study is an endeavor to fill this information gap in terms of the extent of R & D investments in the small- scale sector both in human and fiscal terms and to quantify the impact of such investments on: outright purchase of R&D, development of new products, development of new processes and improvement in productivity/cost efficiency.

A sample survey using 'Quota Sampling' Methodology was carried out in 17 states, involving 47 locations and 75 industrial clusters. In all 5348 units were surveyed, of which 698 were performing R&D activities. Results of this study based on the above empirical enquiry is presented in two volumes: one an analytical interpretation of the field data, and the other a structured compilation of the field data.

New Delhi
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Annex

- Tabulated Data
- Questionnaires

Tabulated Data

Annex (Questionnaire I)

Refers to the Filter Questionnaire administered to all target units.

Data relating to:

- Total Units
- Units performing R&D
- Units not performing R&D

Note:

1. Wherever the data exceeds the total number of units it indicates the cases with multiple answers.
2. Wherever the data is less than the total number of units it indicates that non-responses cases are not included.

Table 1a: Industrywise - Age Classification of Units Performing R&D

2 digit Ind.	Industry name	1-3 years	4-7 years	8-10 years	11-20 years	21-30 years	> 30 years	Total
15	Food Products & Beverages	7 (10)	4 (6)	3 (4)	16 (24)	27 (40)	10 (15)	67 (100)
17	Textiles	10 (9)	13 (12)	16 (15)	36 (34)	17 (16)	14 (13)	106 (100)
18	Wearing Apparels	6 (20)	4 (13)	5 (17)	10 (33)	5 (17)	0 (0)	30 (100)
19	Leather Products	2 (5)	10 (25)	8 (20)	12 (30)	4 (10)	4 (10)	40 (100)
21	Paper & Paper Products	0 (0)	2 (20)	0 (0)	7 (70)	1 (10)	0 (0)	10 (100)
23	Refined petroleum	0 (0)	0 (0)	0 (0)	6 (60)	4 (40)	0 (0)	10 (100)
24	Chemicals & Chemical Pds	3 (9)	9 (28)	6 (19)	11 (34)	1 (3)	2 (6)	32 (100)
25	Rubber & Plastic Products	3 (10)	6 (20)	2 (7)	9 (30)	9 (30)	1 (3)	30 (100)
26	Non-metallic mineral Products	2 (10)	2 (10)	0 (0)	5 (25)	8 (40)	3 (15)	20 (100)
27	Basic Metals	1 (3)	4 (11)	5 (14)	11 (31)	9 (26)	5 (14)	35 (100)
28	Metal products	4 (7)	11 (19)	5 (9)	25 (44)	9 (16)	3 (5)	57 (100)
29	Machinery & Equipment	5 (5)	12 (13)	7 (7)	48 (51)	16 (17)	6 (6)	94 (100)
30	Office accounting & computing machinery	0 (0)	0 (0)	0 (0)	2 (100)	0 (0)	0 (0)	2 (100)
31	Electrical Machinery	4 (9)	10 (22)	7 (16)	15 (33)	6 (13)	3 (7)	45 (100)
32	Radio, TV, Communication Equip. & Appliances	5 (17)	4 (14)	5 (17)	13 (45)	0 (0)	2 (7)	29 (100)
33	Medical, Precision, Optical Instruments, Watches	1 (4)	3 (13)	1 (4)	7 (29)	4 (17)	8 (33)	24 (100)
34	Motor Vehicles, Trailers & Semi-Trailers	0 (0)	5 (10)	2 (4)	18 (36)	13 (26)	12 (24)	50 (100)
35	Transport Equipments	1 (10)	1 (10)	1 (10)	1 (10)	1 (10)	5 (50)	10 (100)
36	Furniture, Jewellery, sports goods, toys & stationery	4 (40)	5 (50)	1 (10)	0 (0)	0 (0)	0 (0)	10 (100)
101	Total	58 (8)	105 (15)	71 (10)	252 (36)	134 (19)	78 (11)	698 (100)

* Figures in parenthesis indicate percentage of reporting units.

Table 1b: Industrywise-Age Classification of Units Not Performing R&D

2 digit Ind.	Industry name	1-3 years	4-7 years	8-10 years	11-20 years	21-30 years	> 30 years	Total
15	Food Products & Beverages	28 (8)	51 (14)	46 (13)	101 (28)	114 (31)	23 (6)	363 (100)
17	Textiles	93 (13)	106 (14)	105 (14)	266 (36)	127 (17)	40 (5)	737 (100)
18	Wearing Apparels	28 (10)	65 (24)	41 (15)	92 (34)	41 (15)	2 (1)	269 (100)
19	Leather Products	21 (9)	41 (17)	53 (22)	73 (30)	31 (13)	27 (11)	246 (100)
21	Paper & Paper Products	1 (1)	6 (7)	15 (16)	54 (59)	12 (13)	4 (4)	92 (100)
23	Refined petroleum	0 (0)	0 (0)	2 (2)	88 (91)	7 (7)	0 (0)	97 (100)
24	Chemicals & Chemical Pds	9 (6)	32 (21)	26 (17)	59 (40)	20 (13)	3 (2)	149 (100)
25	Rubber & Plastic Products	11 (6)	15 (8)	13 (7)	99 (55)	31 (17)	11 (6)	180 (100)
26	Non-metallic mineral Products	1 (1)	4 (4)	10 (10)	63 (64)	20 (20)	0 (0)	98 (100)
27	Basic Metals	13 (7)	19 (10)	16 (9)	91 (50)	27 (15)	15 (8)	181 (100)
28	Metal products	62 (13)	133 (29)	54 (12)	97 (21)	47 (10)	68 (15)	461 (100)
29	Machinery & Equipment	29 (5)	145 (24)	104 (17)	280 (46)	38 (6)	12 (2)	608 (100)
30	Office accounting & computing machinery	1 (4)	2 (9)	1 (4)	16 (70)	3 (13)	0 (0)	23 (100)
31	Electrical Machinery	20 (6)	72 (21)	72 (21)	112 (33)	45 (13)	22 (6)	343 (100)
32	Radio, TV, Communication Equip. & Appliances	18 (18)	17 (17)	15 (15)	32 (32)	13 (13)	4 (4)	99 (100)
33	Medical, Precision, Optical Instruments, Watches	16 (10)	33 (20)	10 (6)	76 (46)	10 (6)	19 (12)	164 (100)
34	Motor Vehicles, Trailers & Semi-Trailers	24 (7)	39 (11)	32 (9)	163 (45)	69 (19)	37 (10)	364 (100)
35	Transport Equipments	0 (0)	0 (0)	0 (0)	1 (14)	0 (0)	6 (86)	7 (100)
36	Furniture, Jewellery, sports goods, toys & stationery	51 (30)	65 (38)	12 (7)	31 (18)	9 (5)	1 (1)	169 (100)
101	Total	426 (9)	845 (18)	627 (13)	1794 (39)	664 (14)	294 (6)	4650 (100)

* Figures in parenthesis indicate percentage of reporting units.

Table 1c: Industrywise-Age Classification of All units

2 digit Ind.	Industry name	1-3 years	4-7 years	8-10 years	11-20 years	21-30 years	> 30 years	Total
15	Food Products & Beverages	35 (8)	55 (13)	49 (11)	117 (27)	141 (33)	33 (8)	430 (100)
17	Textiles	103 (12)	119 (14)	121 (14)	302 (36)	144 (17)	54 (6)	843 (100)
18	Wearing Apparels	34 (11)	69 (23)	46 (15)	102 (34)	46 (15)	2 (1)	299 (100)
19	Leather Products	23 (8)	51 (18)	61 (21)	85 (30)	35 (12)	31 (11)	286 (100)
21	Paper & Paper Products	1 (1)	8 (8)	15 (15)	61 (60)	13 (13)	4 (4)	102 (100)
23	Refined petroleum	0 (0)	0 (0)	2 (2)	94 (88)	11 (10)	0 (0)	107 (100)
24	Chemicals & Chemical Pds	12 (7)	41 (23)	32 (18)	70 (39)	21 (12)	5 (3)	181 (100)
25	Rubber & Plastic Products	14 (7)	21 (10)	15 (7)	108 (51)	40 (19)	12 (6)	210 (100)
26	Non-metallic mineral Products	3 (3)	6 (5)	10 (8)	68 (58)	28 (24)	3 (3)	118 (100)
27	Basic Metals	14 (7)	23 (11)	18 (8)	102 (48)	36 (17)	20 (9)	213 (100)
28	Metal products	66 (13)	144 (28)	59 (11)	122 (24)	56 (11)	71 (14)	518 (100)
29	Machinery & Equipment	34 (5)	157 (22)	111 (16)	328 (47)	54 (8)	18 (3)	702 (100)
30	Office accounting & computing machinery	1 (4)	2 (8)	1 (4)	18 (72)	3 (12)	0 (0)	25 (100)
31	Electrical Machinery	24 (6)	82 (21)	79 (20)	127 (33)	51 (13)	25 (6)	388 (100)
32	Radio, TV, Communication Equip. & Appliances	23 (18)	21 (16)	20 (16)	45 (35)	13 (10)	6 (5)	128 (100)
33	Medical, Precision, Optical Instruments, Watches	17 (9)	36 (19)	11 (6)	83 (44)	14 (7)	27 (14)	188 (100)
34	Motor Vehicles, Trailers & Semi-Trailers	24 (6)	44 (11)	34 (8)	181 (44)	82 (20)	49 (12)	414 (100)
35	Transport Equipments	1 (6)	1 (6)	1 (6)	2 (12)	1 (6)	11 (65)	17 (100)
36	Furniture, Jewellery, sports goods, toys & stationery	55 (31)	70 (39)	13 (7)	31 (17)	9 (5)	1 (1)	179 (100)
101	Total	484 (9)	950 (18)	698 (13)	2046 (38)	798 (15)	372 (7)	5348 (100)

* Figures in parenthesis indicate percentage of reporting units.

Table 2a: Industrywise- Ownership Pattern of Units Performing R&D

2 digit Ind.	Industry name	SoleP	Partnership	JSC	Pvt. Ltd	Pub. Ltd	Total
15	Food Products & Beverages	15 (23)	39 (59)	0 (0)	9 (14)	3 (5)	66 (100)
17	Textiles	64 (60)	26 (25)	0 (0)	8 (8)	8 (8)	106 (100)
18	Wearing Apparels	16 (53)	9 (30)	0 (0)	4 (13)	1 (3)	30 (100)
19	Leather Products	16 (40)	8 (20)	0 (0)	14 (35)	2 (5)	40 (100)
21	Paper & Paper Products	7 (70)	2 (20)	0 (0)	1 (10)	0 (0)	10 (100)
23	Refined petroleum	3 (30)	7 (70)	0 (0)	0 (0)	0 (0)	10 (100)
24	Chemicals & Chemical Pds	2 (6)	6 (19)	0 (0)	15 (47)	9 (28)	32 (100)
25	Rubber & Plastic Products	8 (27)	12 (40)	0 (0)	6 (20)	4 (13)	30 (100)
26	Non-metallic mineral Products	12 (60)	8 (40)	0 (0)	0 (0)	0 (0)	20 (100)
27	Basic Metals	14 (44)	14 (44)	0 (0)	3 (9)	1 (3)	32 (100)
28	Metal products	28 (49)	25 (44)	1 (2)	3 (5)	0 (0)	57 (100)
29	Machinery & Equipment	45 (48)	39 (42)	0 (0)	8 (9)	1 (1)	93 (100)
30	Office accounting & computing machinery	0 (0)	0 (0)	0 (0)	2 (100)	0 (0)	2 (100)
31	Electrical Machinery	19 (42)	10 (22)	1 (2)	15 (33)	0 (0)	45 (100)
32	Radio, TV, Communication Equip. & Appliances	8 (28)	12 (41)	0 (0)	6 (21)	3 (10)	29 (100)
33	Medical, Precision, Optical Instruments, Watches	15 (63)	8 (33)	0 (0)	1 (4)	0 (0)	24 (100)
34	Motor Vehicles, Trailers & Semi-Trailers	11 (22)	19 (38)	0 (0)	17 (34)	3 (6)	50 (100)
35	Transport Equipments	3 (30)	6 (60)	0 (0)	1 (10)	0 (0)	10 (100)
36	Furniture, Jewellery, sports goods, toys & stationery	10 (100)	0 (0)	0 (0)	0 (0)	0 (0)	10 (100)
101	Total	296 (43)	250 (36)	2 (0)	113 (16)	35 (5)	696[#] (100)

* Figures in parenthesis indicate percentage of reporting units. #: 2 units haven't responded.

Table 2b: Industrywise- Ownership Pattern of Units Not performing R&D

2 digit Ind.	Industry name	SoleP	Partnership	JSC	Pvt. Ltd	Pub. Ltd	Total
15	Food Products & Beverages	156 (43)	177 (49)	0 (0)	24 (7)	3 (1)	360 (100)
17	Textiles	600 (82)	91 (12)	1 (0)	21 (3)	21 (3)	734 (100)
18	Wearing Apparels	176 (65)	79 (29)	0 (0)	12 (4)	2 (1)	269 (100)
19	Leather Products	211 (86)	23 (9)	0 (0)	10 (4)	2 (1)	246 (100)
21	Paper & Paper Products	88 (96)	3 (3)	0 (0)	1 (1)	0 (0)	92 (100)
23	Refined petroleum	29 (30)	63 (65)	0 (0)	5 (5)	0 (0)	97 (100)
24	Chemicals & Chemical Pds	27 (18)	59 (40)	0 (0)	51 (34)	11 (7)	148 (100)
25	Rubber & Plastic Products	62 (34)	104 (58)	0 (0)	9 (5)	5 (3)	180 (100)
26	Non-metallic mineral Products	83 (85)	15 (15)	0 (0)	0 (0)	0 (0)	98 (100)
27	Basic Metals	135 (75)	22 (12)	0 (0)	24 (13)	0 (0)	181 (100)
28	Metal products	372 (81)	70 (15)	0 (0)	17 (4)	2 (0)	461 (100)
29	Machinery & Equipment	366 (60)	223 (37)	0 (0)	17 (3)	2 (0)	608 (100)
30	Office accounting & computing machinery	7 (32)	6 (27)	0 (0)	7 (32)	2 (9)	22 (100)
31	Electrical Machinery	232 (68)	71 (21)	0 (0)	37 (11)	3 (1)	343 (100)
32	Radio, TV, Communication Equip. & Appliances	36 (36)	28 (28)	0 (0)	31 (31)	4 (4)	99 (100)
33	Medical, Precision, Optical Instruments, Watches	153 (93)	11 (7)	0 (0)	0 (0)	0 (0)	164 (100)
34	Motor Vehicles, Trailers & Semi-Trailers	181 (50)	108 (30)	0 (0)	71 (20)	4 (1)	364 (100)
35	Transport Equipments	2 (29)	4 (57)	0 (0)	1 (14)	0 (0)	7 (100)
36	Furniture, Jewellery, sports goods, toys & stationery	159 (94)	10 (6)	0 (0)	0 (0)	0 (0)	169 (100)
101	Total	3075 (66)	1167 (25)	1 (0)	338 (7)	61 (1)	4642[#] (100)

* Figures in parenthesis indicate percentage of reporting units. #: 8 units haven't responded.

Table 2c: Industrywise- Ownership Pattern of All Units

2 digit Ind.	Industry name	SoleP	Partnership	JSC	Pvt. Ltd	Pub. Ltd	Total
15	Food Products & Beverages	171 (40)	216 (51)	0 (0)	33 (8)	6 (1)	426 (100)
17	Textiles	664 (79)	117 (14)	1 (0)	29 (3)	29 (3)	840 (100)
18	Wearing Apparels	192 (64)	88 (29)	0 (0)	16 (5)	3 (1)	299 (100)
19	Leather Products	227 (79)	31 (11)	0 (0)	24 (8)	4 (1)	286 (100)
21	Paper & Paper Products	95 (93)	5 (5)	0 (0)	2 (2)	0 (0)	102 (100)
23	Refined petroleum	32 (30)	70 (65)	0 (0)	5 (5)	0 (0)	107 (100)
24	Chemicals & Chemical Pds	29 (16)	65 (36)	0 (0)	66 (37)	20 (11)	180 (100)
25	Rubber & Plastic Products	70 (33)	116 (55)	0 (0)	15 (7)	9 (4)	210 (100)
26	Non-metallic mineral Products	95 (81)	23 (19)	0 (0)	0 (0)	0 (0)	118 (100)
27	Basic Metals	149 (70)	36 (17)	0 (0)	27 (13)	1 (0)	213 (100)
28	Metal products	400 (77)	95 (18)	1 (0)	20 (4)	2 (0)	518 (100)
29	Machinery & Equipment	411 (59)	262 (37)	0 (0)	25 (4)	3 (0)	701 (100)
30	Office accounting & computing machinery	7 (29)	6 (25)	0 (0)	9 (38)	2 (8)	24 (100)
31	Electrical Machinery	251 (65)	81 (21)	1 (0)	52 (13)	3 (1)	388 (100)
32	Radio, TV,Communication Equip. & Appliances	44 (34)	40 (31)	0 (0)	37 (29)	7 (5)	128 (100)
33	Medical, Precision, Optical Instruments, Watches	168 (89)	19 (10)	0 (0)	1 (1)	0 (0)	188 (100)
34	Motor Vehicles,Trailers & Semi-Trailers	192 (46)	127 (31)	0 (0)	88 (21)	7 (2)	414 (100)
35	Transport Equipments	5 (29)	10 (59)	0 (0)	2 (12)	0 (0)	17 (100)
36	Furniture,Jewellery,sports goods,toys & stationery	169 (94)	10 (6)	0 (0)	0 (0)	0 (0)	179 (100)
101	Total	3371 (63)	1417 (27)	3 (0)	451 (8)	96 (2)	5338[#] (100)

* Figures in parenthesis indicate percentage of reporting units. #: 10 units haven't responded.

2 digit Ind.	Industry name	Independent startup	Takeover/ setup by another firm	Spin off	Family business	Total
15	Food Products & Beverages	42 (64)	5 (8)	0 (0)	19 (29)	66 (100)
17	Textiles	69 (66)	2 (2)	3 (3)	30 (29)	104 (100)
18	Wearing Apparels	26 (87)	1 (3)	0 (0)	3 (10)	30 (100)
19	Leather Products	31 (78)	0 (0)	1 (3)	8 (20)	40 (100)
21	Paper & Paper Products	3 (30)	0 (0)	0 (0)	7 (70)	10 (100)
23	Refined petroleum	9 (90)	1 (10)	0 (0)	0 (0)	10 (100)
24	Chemicals & Chemical Pdts	24 (77)	5 (16)	1 (3)	1 (3)	31 (100)
25	Rubber & Plastic Products	29 (97)	0 (0)	0 (0)	1 (3)	30 (100)
26	Non-metallic mineral Products	17 (85)	0 (0)	0 (0)	3 (15)	20 (100)
27	Basic Metals	22 (69)	0 (0)	1 (3)	9 (28)	32 (100)
28	Metal products	52 (91)	1 (2)	1 (2)	3 (5)	57 (100)
29	Machinery & Equipment	68 (72)	5 (5)	1 (1)	20 (21)	94 (100)
30	Office accounting & computing machinery	2 (100)	0 (0)	0 (0)	0 (0)	2 (100)
31	Electrical Machinery	39 (87)	1 (2)	0 (0)	5 (11)	45 (100)
32	Radio, TV,Communication Equip. & Appliances	20 (69)	2 (7)	0 (0)	7 (24)	29 (100)
33	Medical, Precision, Optical Instruments, Watches	17 (71)	0 (0)	0 (0)	7 (29)	24 (100)
34	Motor Vehicles, Trailers & Semi-Trailers	38 (76)	2 (4)	1 (2)	9 (18)	50 (100)
35	Transport Equipments	6 (60)	0 (0)	0 (0)	4 (40)	10 (100)
36	Furniture, Jewellery, sports goods, toys & stationery	10 (100)	0 (0)	0 (0)	0 (0)	10 (100)
101	Total	524 (76)	25 (4)	9 (1)	136 (20)	694^a (100)

* Figures in parenthesis indicate percentage of reporting units. #: 4 units haven't responded.

2 digit Ind.	Industry name	Independent startup	Takeover/ setup by another firm	Spin off	Family business	Total
15	Food Products & Beverages	208 (58)	47 (13)	3 (1)	102 (28)	360 (100)
17	Textiles	491 (68)	38 (5)	2 (0)	196 (27)	727 (100)
18	Wearing Apparels	229 (85)	0 (0)	0 (0)	39 (15)	268 (100)
19	Leather Products	172 (70)	1 (0)	3 (1)	70 (28)	246 (100)
21	Paper & Paper Products	8 (9)	0 (0)	0 (0)	82 (91)	90 (100)
23	Refined petroleum	73 (75)	8 (8)	0 (0)	16 (16)	97 (100)
24	Chemicals & Chemical Pdts	104 (71)	18 (12)	6 (4)	19 (13)	147 (100)
25	Rubber & Plastic Products	170 (94)	0 (0)	3 (2)	7 (4)	180 (100)
26	Non-metallic mineral Products	72 (73)	0 (0)	0 (0)	26 (27)	98 (100)
27	Basic Metals	134 (74)	7 (4)	1 (1)	38 (21)	180 (100)
28	Metal products	389 (85)	8 (2)	1 (0)	60 (13)	458 (100)
29	Machinery & Equipment	431 (72)	45 (8)	0 (0)	124 (21)	600 (100)
30	Office accounting & computing machinery	20 (91)	0 (0)	0 (0)	2 (9)	22 (100)
31	Electrical Machinery	281 (83)	3 (1)	0 (0)	56 (16)	340 (100)
32	Radio, TV,Communication Equip. & Appliances	87 (88)	5 (5)	2 (2)	5 (5)	99 (100)
33	Medical, Precision, Optical Instruments, Watches	129 (79)	1 (1)	2 (1)	31 (19)	163 (100)
34	Motor Vehicles, Trailers & Semi-Trailers	341 (94)	5 (1)	0 (0)	18 (5)	364 (100)
35	Transport Equipments	5 (71)	0 (0)	0 (0)	2 (29)	7 (100)
36	Furniture, Jewellery, sports goods, toys & stationery	76 (45)	0 (0)	0 (0)	93 (55)	169 (100)
101	Total	3420 (74)	186 (4)	23 (0.5)	986 (21)	4615^a (100)

* Figures in parenthesis indicate percentage of reporting units. #: 35 units haven't responded.

2 digit Ind.	Industry name	Independent startup	Takeover/ setup by another firm	Spin off	Family business	Total
15	Food Products & Beverages	250 (59)	52 (12)	3 (1)	121 (28)	426 (100)
17	Textiles	560 (67)	40 (5)	5 (1)	226 (27)	831 (100)
18	Wearing Apparels	255 (86)	1 (0)	0 (0)	42 (14)	298 (100)
19	Leather Products	203 (71)	1 (0)	4 (1)	78 (27)	286 (100)
21	Paper & Paper Products	11 (11)	0 (0)	0 (0)	89 (89)	100 (100)
23	Refined petroleum	82 (77)	9 (8)	0 (0)	16 (15)	107 (100)
24	Chemicals & Chemical Pdts	128 (72)	23 (13)	7 (4)	20 (11)	178 (100)
25	Rubber & Plastic Products	199 (95)	0 (0)	3 (1)	8 (4)	210 (100)
26	Non-metallic mineral Products	89 (75)	0 (0)	0 (0)	29 (25)	118 (100)
27	Basic Metals	156 (74)	7 (3)	2 (1)	47 (22)	212 (100)
28	Metal products	441 (85)	9 (2)	2 (0)	63 (12)	515 (100)
29	Machinery & Equipment	499 (72)	50 (7)	1 (0)	144 (21)	694 (100)
30	Office accounting & computing machinery	22 (92)	0 (0)	0 (0)	2 (8)	24 (100)
31	Electrical Machinery	320 (83)	4 (1)	0 (0)	61 (16)	385 (100)
32	Radio, TV,Communication Equip. & Appliances	107 (84)	7 (5)	2 (2)	12 (9)	128 (100)
33	Medical, Precision, Optical Instruments, Watches	146 (78)	1 (1)	2 (1)	38 (20)	187 (100)
34	Motor Vehicles,Trailers & Semi-Trailers	379 (92)	7 (2)	1 (0)	27 (7)	414 (100)
35	Transport Equipments	11 (65)	0 (0)	0 (0)	6 (35)	17 (100)
36	Furniture,Jewellery,sports goods,toys & stationery	86 (48)	0 (0)	0 (0)	93 (52)	179 (100)
101	Total	3944 (74)	211 (4)	32 (1)	1122 (21)	5309^a (100)

* Figures in parenthesis indicate percentage of reporting units. #: 39 units haven't responded.

Table 4a: Industrywise- Experience & Qualifications of Owner/Manager of Units Performing R&D

2 digit Ind.	Industry name	Research/ Engineering Experience	Research/ Engineering Qualification	Managerial experience	Managerial qualification	Family business with no formal qualifi.	Others	Total
15	Food Products & Beverages	9 (13)	4 (6)	12 (18)	7 (10)	22 (33)	13 (19)	67 (100)
17	Textiles	14 (13)	3 (3)	31 (29)	6 (6)	35 (33)	17 (16)	106 (100)
18	Wearing Apparels	2 (7)	0 (0)	10 (33)	8 (27)	9 (30)	1 (3)	30 (100)
19	Leather Products	15 (38)	1 (3)	8 (20)	5 (13)	11 (28)	0 (0)	40 (100)
21	Paper & Paper Products	0 (0)	0 (0)	0 (0)	0 (0)	9 (90)	1 (10)	10 (100)
23	Refined petroleum	0 (0)	0 (0)	6 (60)	0 (0)	4 (40)	0 (0)	10 (100)
24	Chemicals & Chemical Pdts	8 (25)	5 (16)	9 (28)	3 (9)	5 (16)	2 (6)	32 (100)
25	Rubber & Plastic Products	2 (7)	4 (13)	12 (40)	4 (13)	8 (27)	0 (0)	30 (100)
26	Non-metallic mineral Products	4 (20)	4 (20)	4 (20)	5 (25)	3 (15)	0 (0)	20 (100)
27	Basic Metals	5 (16)	0 (0)	5 (16)	5 (16)	16 (50)	1 (3)	32 (100)
28	Metal products	9 (16)	26 (46)	5 (9)	5 (9)	10 (18)	2 (4)	57 (100)
29	Machinery & Equipment	20 (21)	13 (14)	20 (21)	17 (18)	18 (19)	6 (6)	94 (100)
30	Office accounting & computing machinery	2 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (100)
31	Electrical Machinery	15 (33)	10 (22)	10 (22)	3 (7)	6 (13)	1 (2)	45 (100)
32	Radio, TV,Communication Equip. & Appliances	10 (34)	3 (10)	9 (31)	2 (7)	3 (10)	2 (7)	29 (100)
33	Medical, Precision, Optical Instruments, Watches	2 (8)	3 (13)	9 (38)	2 (8)	6 (25)	2 (8)	24 (100)
34	Motor Vehicles,Trailers & Semi-Trailers	11 (22)	11 (22)	8 (16)	11 (22)	9 (18)	0 (0)	50 (100)
35	Transport Equipments	0 (0)	0 (0)	0 (0)	10 (100)	0 (0)	0 (0)	10 (100)
36	Furniture,Jewellery,sports goods,toys & stationery	5 (50)	0 (0)	0 (0)	0 (0)	2 (20)	3 (30)	10 (100)
101	Total	133 (19)	87 (12)	158 (23)	93 (13)	176 (25)	51 (7)	698 (100)

* Figures in parenthesis indicate percentage of reporting units.

Table 4b: Industrywise- Experience & Qualifications of Owner/Manager of Units Not Performing R&D

2 digit Ind.	Industry name	Research/ Engineering Experience	Research/ Engineering Qualification	Managerial experience	Managerial qualification	Family business with no formal qualifi.	Others	Total
15	Food Products & Beverages	18 (5)	3 (1)	84 (23)	39 (11)	168 (46)	51 (14)	363 (100)
17	Textiles	1 (0)	5 (1)	122 (17)	16 (2)	469 (64)	124 (17)	737 (100)
18	Wearing Apparels	0 (0)	0 (0)	104 (39)	14 (5)	149 (55)	2 (1)	269 (100)
19	Leather Products	4 (2)	3 (1)	55 (22)	34 (14)	136 (55)	14 (6)	246 (100)
21	Paper & Paper Products	0 (0)	0 (0)	0 (0)	0 (0)	90 (98)	2 (2)	92 (100)
23	Refined petroleum	3 (3)	0 (0)	50 (52)	10 (10)	32 (33)	2 (2)	97 (100)
24	Chemicals & Chemical Pdts	14 (9)	3 (2)	65 (44)	17 (11)	39 (26)	11 (7)	149 (100)
25	Rubber & Plastic Products	1 (1)	7 (4)	83 (46)	18 (10)	71 (39)	0 (0)	180 (100)
26	Non-metallic mineral Products	0 (0)	24 (24)	10 (10)	32 (33)	32 (33)	0 (0)	98 (100)
27	Basic Metals	12 (7)	21 (12)	14 (8)	41 (23)	75 (41)	18 (10)	181 (100)
28	Metal products	97 (21)	63 (14)	25 (5)	9 (2)	239 (52)	28 (6)	461 (100)
29	Machinery & Equipment	43 (7)	64 (11)	194 (32)	53 (9)	179 (29)	75 (12)	608 (100)
30	Office accounting & computing machinery	2 (9)	2 (9)	11 (48)	2 (9)	5 (22)	1 (4)	23 (100)
31	Electrical Machinery	31 (9)	17 (5)	130 (38)	41 (12)	108 (31)	16 (5)	343 (100)
32	Radio, TV,Communication Equip. & Appliances	20 (20)	16 (16)	25 (25)	24 (24)	10 (10)	4 (4)	99 (100)
33	Medical, Precision, Optical Instruments, Watches	4 (2)	0 (0)	79 (48)	12 (7)	49 (30)	20 (12)	164 (100)
34	Motor Vehicles,Trailers & Semi-Trailers	18 (5)	44 (12)	139 (38)	37 (10)	123 (34)	3 (1)	364 (100)
35	Transport Equipments	0 (0)	0 (0)	0 (0)	7 (100)	0 (0)	0 (0)	7 (100)
36	Furniture,Jewellery,sports goods,toys & stationery	17 (10)	0 (0)	4 (2)	3 (2)	108 (64)	37 (22)	169 (100)
101	Total	285 (6)	272 (6)	1194 (26)	409 (9)	2082 (45)	408 (9)	4650 (100)

* Figures in parenthesis indicate percentage of reporting units.

Table 4c: Industrywise- Experience & Qualifications of Owner/manager of All Units

2 digit Ind.	Industry name	Research/ Engineering Experience	Research/ Engineering Qualification	Managerial experience	Managerial qualification	Family business with no formal qualifi.	Others	Total
15	Food Products & Beverages	27 (6)	7 (2)	96 (22)	46 (11)	190 (44)	64 (15)	430 (100)
17	Textiles	15 (2)	8 (1)	153 (18)	22 (3)	504 (60)	141 (17)	843 (100)
18	Wearing Apparels	2 (1)	0 (0)	114 (38)	22 (7)	158 (53)	3 (1)	299 (100)
19	Leather Products	19 (7)	4 (1)	63 (22)	39 (14)	147 (51)	14 (5)	286 (100)
21	Paper & Paper Products	0 (0)	0 (0)	0 (0)	0 (0)	99 (97)	3 (3)	102 (100)
23	Refined petroleum	3 (3)	0 (0)	56 (52)	10 (9)	36 (34)	2 (2)	107 (100)
24	Chemicals & Chemical Pdts	22 (12)	8 (4)	74 (41)	20 (11)	44 (24)	13 (7)	181 (100)
25	Rubber & Plastic Products	3 (1)	11 (5)	95 (45)	22 (10)	79 (38)	0 (0)	210 (100)
26	Non-metallic mineral Products	4 (3)	28 (24)	14 (12)	37 (31)	35 (30)	0 (0)	118 (100)
27	Basic Metals	17 (8)	21 (10)	19 (9)	46 (22)	91 (43)	19 (9)	213 (100)
28	Metal products	106 (20)	89 (17)	30 (6)	14 (3)	249 (48)	30 (6)	518 (100)
29	Machinery & Equipment	63 (9)	77 (11)	214 (30)	70 (10)	197 (28)	81 (12)	702 (100)
30	Office accounting & computing machinery	4 (16)	2 (8)	11 (44)	2 (8)	5 (20)	1 (4)	25 (100)
31	Electrical Machinery	46 (12)	27 (7)	140 (36)	44 (11)	114 (29)	17 (4)	388 (100)
32	Radio, TV, Communication Equip. & Appliances	30 (23)	19 (15)	34 (27)	26 (20)	13 (10)	6 (5)	128 (100)
33	Medical, Precision, Optical Instruments, Watches	6 (3)	3 (2)	88 (47)	14 (7)	55 (29)	22 (12)	188 (100)
34	Motor Vehicles, Trailers & Semi-Trailers	29 (7)	55 (13)	147 (36)	48 (12)	132 (32)	3 (1)	414 (100)
35	Transport Equipments	0 (0)	0 (0)	0 (0)	17 (100)	0 (0)	0 (0)	17 (100)
36	Furniture, Jewellery, sports goods, toys & stationery	22 (12)	0 (0)	4 (2)	3 (2)	110 (61)	40 (22)	179 (100)
101	Total	418 (8)	359 (7)	1352 (25)	502 (9)	2258 (42)	459 (9)	5348 (100)

* Figures in parenthesis indicate percentage of reporting units.

Table 5a: Industrywise- Type of Units Performing R&D

2 digit Ind.	Industry Name	SSI	Ancillary industry	Export oriented units (EOU)	Subsidiary	Total
15	Food Products & Beverages	65 (97)	1 (1)	1 (1)	0 (0)	67 (100)
17	Textiles	90 (87)	4 (4)	9 (9)	1 (1)	104 (100)
18	Wearing Apparels	8 (27)	3 (10)	13 (43)	6 (20)	30 (100)
19	Leather Products	24 (63)	0 (0)	14 (37)	0 (0)	38 (100)
21	Paper & Paper Products	6 (67)	0 (0)	3 (33)	0 (0)	9 (100)
23	Refined petroleum	3 (30)	4 (40)	0 (0)	3 (30)	10 (100)
24	Chemicals & Chemical Pds	24 (75)	8 (25)	0 (0)	0 (0)	32 (100)
25	Rubber & Plastic Products	21 (70)	5 (17)	0 (0)	4 (13)	30 (100)
26	Non-metallic mineral Products	20 (100)	0 (0)	0 (0)	0 (0)	20 (100)
27	Basic Metals	29 (91)	3 (9)	0 (0)	0 (0)	32 (100)
28	Metal products	46 (81)	5 (9)	4 (7)	2 (4)	57 (100)
29	Machinery & Equipment	72 (77)	21 (23)	0 (0)	0 (0)	93 (100)
30	Office accounting & computing machinery	2 (100)	0 (0)	0 (0)	0 (0)	2 (100)
31	Electrical Machinery	41 (91)	3 (7)	1 (2)	0 (0)	45 (100)
32	Radio, TV,Communication Equip. & Appliances	21 (72)	7 (24)	0 (0)	1 (3)	29 (100)
33	Medical, Precision, Optical Instruments, Watches	23 (96)	0 (0)	1 (4)	0 (0)	24 (100)
34	Motor Vehicles,Trailers & Semi-Trailers	41 (82)	5 (10)	1 (2)	3 (6)	50 (100)
35	Transport Equipments	10 (100)	0 (0)	0 (0)	0 (0)	10 (100)
36	Furniture,Jewellery,sports goods,toys & stationery	10 (100)	0 (0)	0 (0)	0 (0)	10 (100)
101	Total	556 (80)	69 (10)	47 (7)	20 (3)	692[#] (100)

* Figures in parenthesis indicate percentage of reporting units. #: 6 units haven't responded.

Table 5b: Industrywise- Type of Units Not Performing R&D

2 digit Ind.	Industry Name	SSI	Ancillary industry	Export oriented units (EOU)	Subsidiary	Total
15	Food Products & Beverages	354 (98)	3 (1)	2 (1)	3 (1)	362 (100)
17	Textiles	535 (85)	90 (14)	0 (0)	2 (0)	627 (100)
18	Wearing Apparels	163 (61)	60 (22)	13 (5)	33 (12)	269 (100)
19	Leather Products	205 (87)	22 (9)	8 (3)	1 (0)	236 (100)
21	Paper & Paper Products	91 (100)	0 (0)	0 (0)	0 (0)	91 (100)
23	Refined petroleum	9 (9)	78 (80)	0 (0)	10 (10)	97 (100)
24	Chemicals & Chemical Pds	51 (34)	71 (48)	0 (0)	27 (18)	149 (100)
25	Rubber & Plastic Products	91 (51)	63 (35)	0 (0)	26 (14)	180 (100)
26	Non-metallic mineral Products	98 (100)	0 (0)	0 (0)	0 (0)	98 (100)
27	Basic Metals	163 (90)	17 (9)	0 (0)	1 (1)	181 (100)
28	Metal products	385 (84)	58 (13)	1 (0)	16 (3)	460 (100)
29	Machinery & Equipment	349 (58)	221 (37)	3 (1)	27 (5)	600 (100)
30	Office accounting & computing machinery	7 (30)	8 (35)	0 (0)	8 (35)	23 (100)
31	Electrical Machinery	242 (71)	84 (25)	2 (1)	13 (4)	341 (100)
32	Radio, TV,Communication Equip. & Appliances	71 (72)	20 (20)	0 (0)	8 (8)	99 (100)
33	Medical, Precision, Optical Instruments, Watches	159 (98)	4 (2)	0 (0)	0 (0)	163 (100)
34	Motor Vehicles,Trailers & Semi-Trailers	254 (70)	56 (15)	0 (0)	54 (15)	364 (100)
35	Transport Equipments	7 (100)	0 (0)	0 (0)	0 (0)	7 (100)
36	Furniture,Jewellery,sports goods,toys & stationery	127 (100)	0 (0)	0 (0)	0 (0)	127 (100)
101	Total	3361 (75)	855 (19)	29 (1)	229 (5)	4474[#] (100)

* Figures in parenthesis indicate percentage of reporting units. #: 176 units haven't responded.

Table 5c: Industrywise- Type of All Units

2 digit Ind.	Industry Name	SSI	Ancillary industry	Export oriented units (EOU)	Subsidiary	Total
15	Food Products & Beverages	419 (98)	4 (1)	3 (1)	3 (1)	429 (100)
17	Textiles	625 (85)	94 (13)	9 (1)	3 (0)	731 (100)
18	Wearing Apparels	171 (57)	63 (21)	26 (9)	39 (13)	299 (100)
19	Leather Products	229 (84)	22 (8)	22 (8)	1 (0)	274 (100)
21	Paper & Paper Products	97 (97)	0 (0)	3 (3)	0 (0)	100 (100)
23	Refined petroleum	12 (11)	82 (77)	0 (0)	13 (12)	107 (100)
24	Chemicals & Chemical Pds	75 (41)	79 (44)	0 (0)	27 (15)	181 (100)
25	Rubber & Plastic Products	112 (53)	68 (32)	0 (0)	30 (14)	210 (100)
26	Non-metallic mineral Products	118 (100)	0 (0)	0 (0)	0 (0)	118 (100)
27	Basic Metals	192 (90)	20 (9)	0 (0)	1 (0)	213 (100)
28	Metal products	431 (83)	63 (12)	5 (1)	18 (3)	517 (100)
29	Machinery & Equipment	421 (61)	242 (35)	3 (0)	27 (4)	693 (100)
30	Office accounting & computing machinery	9 (36)	8 (32)	0 (0)	8 (32)	25 (100)
31	Electrical Machinery	283 (73)	87 (23)	3 (1)	13 (3)	386 (100)
32	Radio, TV, Communication Equip. & Appliances	92 (72)	27 (21)	0 (0)	9 (7)	128 (100)
33	Medical, Precision, Optical Instruments, Watches	182 (97)	4 (2)	1 (1)	0 (0)	187 (100)
34	Motor Vehicles, Trailers & Semi-Trailers	295 (71)	61 (15)	1 (0)	57 (14)	414 (100)
35	Transport Equipments	17 (100)	0 (0)	0 (0)	0 (0)	17 (100)
36	Furniture, Jewellery, sports goods, toys & stationery	137 (100)	0 (0)	0 (0)	0 (0)	137 (100)
101	Total	3917 (76)	924 (18)	76 (1)	249 (5)	5166[#] (100)

* Figures in parenthesis indicate percentage of reporting units. #: 182 units haven't responded.

Table 6a: Industrywise- Geographical Areas of Operation of Units Performing R&D

2 digit Ind.	Industry name	Various states	Outside country	Both	Only local	No Response	Total
15	Food Products & Beverages	65 (97)	1 (1)	1 (1)	0 (0)	0 (0)	67 (100)
17	Textiles	90 (85)	4 (4)	9 (8)	1 (1)	2 (2)	106 (100)
18	Wearing Apparels	8 (27)	3 (10)	13 (43)	6 (20)	0 (0)	30 (100)
19	Leather Products	24 (60)	0 (0)	14 (35)	0 (0)	2 (5)	40 (100)
21	Paper & Paper Products	6 (60)	0 (0)	3 (30)	0 (0)	1 (10)	10 (100)
23	Refined petroleum	3 (30)	4 (40)	0 (0)	3 (30)	0 (0)	10 (100)
24	Chemicals & Chemical Pds	24 (75)	8 (25)	0 (0)	0 (0)	0 (0)	32 (100)
25	Rubber & Plastic Products	21 (70)	5 (17)	0 (0)	4 (13)	0 (0)	30 (100)
26	Non-metallic mineral Products	20 (100)	0 (0)	0 (0)	0 (0)	0 (0)	20 (100)
27	Basic Metals	29 (91)	3 (9)	0 (0)	0 (0)	0 (0)	32 (100)
28	Metal products	46 (81)	5 (9)	4 (7)	2 (4)	0 (0)	57 (100)
29	Machinery & Equipment	72 (77)	21 (22)	0 (0)	0 (0)	1 (1)	94 (100)
30	Office accounting & computing machinery	2 (100)	0 (0)	0 (0)	0 (0)	0 (0)	2 (100)
31	Electrical Machinery	41 (91)	3 (7)	1 (2)	0 (0)	0 (0)	45 (100)
32	Radio, TV,Communication Equip. & Appliances	21 (72)	7 (24)	0 (0)	1 (3)	0 (0)	29 (100)
33	Medical, Precision, Optical Instruments, Watches	23 (96)	0 (0)	1 (4)	0 (0)	0 (0)	24 (100)
34	Motor Vehicles,Trailers & Semi-Trailers	41 (82)	5 (10)	1 (2)	3 (6)	0 (0)	50 (100)
35	Transport Equipments	10 (100)	0 (0)	0 (0)	0 (0)	0 (0)	10 (100)
36	Furniture,Jewellery,sports goods,toys & stationery	10 (100)	0 (0)	0 (0)	0 (0)	0 (0)	10 (100)
101	Total	556 (80)	69 (10)	47 (7)	20 (3)	6 (1)	698 (100)

* Figures in parenthesis indicate percentage of reporting units.

Table 6b: Industrywise- Geographical Areas of Operation of Units Not Performing R&D

2 digit Ind.	Industry name	Various states	Outside country	Both	Only local	No Response	Total
15	Food Products & Beverages	354 (98)	3 (1)	2 (1)	3 (1)	1 (0)	363 (100)
17	Textiles	535 (73)	90 (12)	0 (0)	2 (0)	110 (15)	737 (100)
18	Wearing Apparels	163 (61)	60 (22)	13 (5)	33 (12)	0 (0)	269 (100)
19	Leather Products	205 (83)	22 (9)	8 (3)	1 (0)	10 (4)	246 (100)
21	Paper & Paper Products	91 (99)	0 (0)	0 (0)	0 (0)	1 (1)	92 (100)
23	Refined petroleum	9 (9)	78 (80)	0 (0)	10 (10)	0 (0)	97 (100)
24	Chemicals & Chemical Pds	51 (34)	71 (48)	0 (0)	27 (18)	0 (0)	149 (100)
25	Rubber & Plastic Products	91 (51)	63 (35)	0 (0)	26 (14)	0 (0)	180 (100)
26	Non-metallic mineral Products	98 (100)	0 (0)	0 (0)	0 (0)	0 (0)	98 (100)
27	Basic Metals	163 (90)	17 (9)	0 (0)	1 (1)	0 (0)	181 (100)
28	Metal products	385 (84)	58 (13)	1 (0)	16 (3)	1 (0)	461 (100)
29	Machinery & Equipment	349 (57)	221 (36)	3 (0)	27 (4)	8 (1)	608 (100)
30	Office accounting & computing machinery	7 (30)	8 (35)	0 (0)	8 (35)	0 (0)	23 (100)
31	Electrical Machinery	242 (71)	84 (24)	2 (1)	13 (4)	2 (1)	343 (100)
32	Radio, TV,Communication Equip. & Appliances	71 (72)	20 (20)	0 (0)	8 (8)	0 (0)	99 (100)
33	Medical, Precision, Optical Instruments, Watches	159 (97)	4 (2)	0 (0)	0 (0)	1 (1)	164 (100)
34	Motor Vehicles,Trailers & Semi-Trailers	254 (70)	56 (15)	0 (0)	54 (15)	0 (0)	364 (100)
35	Transport Equipments	7 (100)	0 (0)	0 (0)	0 (0)	0 (0)	7 (100)
36	Furniture,Jewellery,sports goods,toys & stationery	127 (75)	0 (0)	0 (0)	0 (0)	42 (25)	169 (100)
101	Total	3361 (72)	855 (18)	29 (1)	229 (5)	176 (4)	4650 (100)

* Figures in parenthesis indicate percentage of reporting units.

Table 6c: Industrywise- Geographical Areas of Operation of All units

2 digit Ind.	Industry name	Various states	Outside country	Both	Only local	No Response	Total
15	Food Products & Beverages	419 (97)	4 (1)	3 (1)	3 (1)	1 (0)	430
17	Textiles	625 (74)	94 (11)	9 (1)	3 (0)	112 (13)	843
18	Wearing Apparels	171 (57)	63 (21)	26 (9)	39 (13)	0 (0)	299
19	Leather Products	229 (80)	22 (8)	22 (8)	1 (0)	12 (4)	286
21	Paper & Paper Products	97 (95)	0 (0)	3 (3)	0 (0)	2 (2)	102
23	Refined petroleum	12 (11)	82 (77)	0 (0)	13 (12)	0 (0)	107
24	Chemicals & Chemical Pds	75 (41)	79 (44)	0 (0)	27 (15)	0 (0)	181
25	Rubber & Plastic Products	112 (53)	68 (23)	0 (0)	30 (14)	0 (0)	210
26	Non-metallic mineral Products	118 (100)	0 (0)	0 (0)	0 (0)	0 (0)	118
27	Basic Metals	192 (90)	20 (9)	0 (0)	1 (0)	0 (0)	213
28	Metal products	431 (83)	63 (12)	5 (1)	18 (3)	1 (0)	518
29	Machinery & Equipment	421 (60)	242 (34)	3 (0)	27 (4)	9 (1)	702
30	Office accounting & computing machinery	9 (36)	8 (32)	0 (0)	8 (32)	0 (0)	25
31	Electrical Machinery	283 (73)	87 (22)	3 (1)	13 (3)	2 (1)	388
32	Radio, TV, Communication Equip. & Appliances	92 (72)	27 (21)	0 (0)	9 (7)	0 (0)	128
33	Medical, Precision, Optical Instruments, Watches	182 (97)	4 (2)	1 (1)	0 (0)	1 (1)	188
34	Motor Vehicles, Trailers & Semi-Trailers	295 (71)	61 (15)	1 (0)	57 (14)	0 (0)	414
35	Transport Equipments	17 (100)	0 (0)	0 (0)	0 (0)	0 (0)	17
36	Furniture, Jewellery, sports goods, toys & stationery	137 (77)	0 (0)	0 (0)	0 (0)	42 (23)	179
101	Total	3917 (73)	924 (17)	76 (1)	249 (5)	182 (3)	5348

* Figures in parenthesis indicate percentage of reporting units.

2 digit Ind.	Industry name	Reserved	Not Reserved	Not mentioned	Total
15	Food Products & Beverages	38 (57)	24 (36)	5 (7)	67 (100)
17	Textiles	39 (37)	51 (48)	16 (15)	106 (100)
18	Wearing Apparels	13 (43)	15 (50)	2 (7)	30 (100)
19	Leather Products	25 (63)	1 (3)	14 (35)	40 (100)
21	Paper & Paper Products	7 (70)	1 (10)	2 (20)	10 (100)
23	Refined petroleum	0 (0)	10 (100)	0 (0)	10 (100)
24	Chemicals & Chemical Pdts	5 (16)	21 (66)	6 (19)	32 (100)
25	Rubber & Plastic Products	10 (33)	20 (67)	0 (0)	30 (100)
26	Non-metallic mineral Products	4 (20)	16 (80)	0 (0)	20 (100)
27	Basic Metals	16 (50)	13 (41)	3 (9)	32 (100)
28	Metal products	18 (32)	24 (42)	15 (26)	57 (100)
29	Machinery & Equipment	48 (51)	38 (40)	8 (9)	94 (100)
30	Office accounting & computing machinery	0 (0)	2 (100)	0 (0)	2 (100)
31	Electrical Machinery	21 (47)	17 (38)	7 (16)	45 (100)
32	Radio, TV,Communication Equip. & Appliances	12 (41)	17 (59)	0 (0)	29 (100)
33	Medical, Precision, Optical Instruments, Watches	9 (38)	14 (58)	1 (4)	24 (100)
34	Motor Vehicles,Trailers & Semi-Trailers	6 (12)	33 (66)	11 (22)	50 (100)
35	Transport Equipments	0 (0)	10 (100)	0 (0)	10 (100)
36	Furniture,Jewellery,sports goods,toys & stationery	0 (0)	10 (100)	0 (0)	10 (100)
101	Total	271 (39)	337 (48)	90 (13)	698 (100)

* Figures in parenthesis indicate percentage of reporting units.

2 digit Ind.	Industry name	Reserved	Not Reserved	Not mentioned	Total
15	Food Products & Beverages	175 (48)	128 (35)	60 (17)	363 (100)
17	Textiles	194 (26)	402 (55)	141 (19)	737 (100)
18	Wearing Apparels	112 (42)	122 (45)	35 (13)	269 (100)
19	Leather Products	86 (35)	70 (28)	90 (37)	246 (100)
21	Paper & Paper Products	40 (43)	4 (4)	48 (52)	92 (100)
23	Refined petroleum	1 (1)	96 (99)	0 (0)	97 (100)
24	Chemicals & Chemical Pdts	14 (9)	121 (81)	14 (9)	149 (100)
25	Rubber & Plastic Products	91 (51)	89 (49)	0 (0)	180 (100)
26	Non-metallic mineral Products	27 (28)	70 (71)	1 (1)	98 (100)
27	Basic Metals	103 (57)	48 (27)	30 (17)	181 (100)
28	Metal products	111 (24)	230 (50)	120 (26)	461 (100)
29	Machinery & Equipment	161 (26)	392 (64)	55 (9)	608 (100)
30	Office accounting & computing machinery	4 (17)	18 (78)	1 (4)	23 (100)
31	Electrical Machinery	139 (41)	143 (42)	61 (18)	343 (100)
32	Radio, TV,Communication Equip. & Appliances	35 (35)	59 (60)	5 (5)	99 (100)
33	Medical, Precision, Optical Instruments, Watches	38 (23)	115 (70)	11 (7)	164 (100)
34	Motor Vehicles,Trailers & Semi-Trailers	53 (15)	269 (74)	42 (12)	364 (100)
35	Transport Equipments	0 (0)	7 (100)	0 (0)	7 (100)
36	Furniture,Jewellery,sports goods,toys & stationery	1 (1)	125 (74)	43 (25)	169 (100)
101	Total	1385 (30)	2508 (54)	757 (16)	4650 (100)

* Figures in parenthesis indicate percentage of reporting units.

Table 7c: Industrywise- All Units under SSI Reservation List					
2 digit Ind.	Industry name	Reserved	Not Reserved	Not mentioned	Total
15	Food Products & Beverages	213 (50)	152 (35)	65 (15)	430 (100)
17	Textiles	233 (28)	453 (54)	157 (19)	843 (100)
18	Wearing Apparels	125 (42)	137 (46)	37 (12)	299 (100)
19	Leather Products	111 (39)	71 (25)	104 (36)	286 (100)
21	Paper & Paper Products	47 (46)	5 (5)	50 (49)	102 (100)
23	Refined petroleum	1 (1)	106 (99)	0 (0)	107 (100)
24	Chemicals & Chemical Pdts	19 (10)	142 (78)	20 (11)	181 (100)
25	Rubber & Plastic Products	101 (48)	109 (52)	0 (0)	210 (100)
26	Non-metallic mineral Products	31 (26)	86 (73)	1 (1)	118 (100)
27	Basic Metals	119 (56)	61 (29)	33 (15)	213 (100)
28	Metal products	129 (25)	254 (49)	135 (26)	518 (100)
29	Machinery & Equipment	209 (30)	430 (61)	63 (9)	702 (100)
30	Office accounting & computing machinery	4 (16)	20 (80)	1 (4)	25 (100)
31	Electrical Machinery	160 (41)	160 (41)	68 (18)	388 (100)
32	Radio, TV, Communication Equip. & Appliances	47 (37)	76 (59)	5 (4)	128 (100)
33	Medical, Precision, Optical Instruments, Watches	47 (25)	129 (69)	12 (6)	188 (100)
34	Motor Vehicles, Trailers & Semi-Trailers	59 (14)	302 (73)	53 (13)	414 (100)
35	Transport Equipments	0 (0)	17 (100)	0 (0)	17 (100)
36	Furniture, Jewellery, sports goods, toys & stationery	1 (1)	135 (75)	43 (24)	179 (100)
101	Total	1656 (31)	2845 (53)	847 (16)	5348 (100)

* Figures in parenthesis indicate percentage of reporting units.

Table 8 a: Industrywise- Vision for Growth of Units Performing R&D

2 digit Ind.	Industry Name	No. of units like to Remain as SSI		No. of units like to grow into larger unit		No Opinion	Total
15	Food Products & Beverages	40	(60)	26	(39)	1 (1)	67 (100)
17	Textiles	35	(33)	60	(57)	11 (10)	106 (100)
18	Wearing Apparels	14	(47)	16	(53)	0 (0)	30 (100)
19	Leather Products	9	(23)	27	(68)	4 (10)	40 (100)
21	Paper & Paper Products	0	(0)	10	(100)	0 (0)	10 (100)
23	Refined petroleum	6	(60)	4	(40)	0 (0)	10 (100)
24	Chemicals & Chemical Pds	9	(28)	22	(69)	1 (3)	32 (100)
25	Rubber & Plastic Products	16	(53)	14	(47)	0 (0)	30 (100)
26	Non-metallic mineral Products	4	(20)	13	(65)	3 (15)	20 (100)
27	Basic Metals	19	(59)	12	(38)	1 (3)	32 (100)
28	Metal products	22	(39)	35	(61)	0 (0)	57 (100)
29	Machinery & Equipment	42	(45)	47	(50)	5 (5)	94 (100)
30	Office accounting & computing machinery	0	(0)	2	(100)	0 (0)	2 (100)
31	Electrical Machinery	9	(20)	34	(76)	2 (4)	45 (100)
32	Radio, TV,Communication Equip. & Appliances	16	(55)	12	(41)	1 (3)	29 (100)
33	Medical, Precision, Optical Instruments, Watches	5	(21)	19	(79)	0 (0)	24 (100)
34	Motor Vehicles,Trailers & Semi-Trailers	15	(30)	32	(64)	3 (6)	50 (100)
35	Transport Equipments	0	(0)	10	(100)	0 (0)	10 (100)
36	Furniture,Jewellery,sports goods,toys & stationery	6	(60)	4	(40)	0 (0)	10 (100)
101	Total	267	(38)	399	(57)	32 (5)	698 (100)

* Figures in parenthesis indicate percentage of reporting units.

Table 8b: Industrywise- Vision for Growth of Units Not Performing R&D

2 digit Ind.	Industry Name	Like to remain as SSI		Like to grow to a larger unit		No Opinion	Total
15	Food Products & Beverages	264	(73)	91	(25)	8 (2)	363 (100)
17	Textiles	405	(55)	257	(35)	75 (10)	737 (100)
18	Wearing Apparels	159	(59)	108	(40)	2 (1)	269 (100)
19	Leather Products	123	(50)	94	(38)	29 (12)	246 (100)
21	Paper & Paper Products	9	(10)	79	(86)	4 (4)	92 (100)
23	Refined petroleum	91	(94)	6	(6)	0 (0)	97 (100)
24	Chemicals & Chemical Pds	63	(42)	80	(54)	6 (4)	149 (100)
25	Rubber & Plastic Products	175	(97)	5	(3)	0 (0)	180 (100)
26	Non-metallic mineral Products	36	(37)	62	(63)	0 (0)	98 (100)
27	Basic Metals	133	(73)	39	(22)	9 (5)	181 (100)
28	Metal products	262	(57)	185	(40)	14 (3)	461 (100)
29	Machinery & Equipment	268	(44)	304	(50)	36 (6)	608 (100)
30	Office accounting & computing machinery	20	(87)	2	(9)	1 (4)	23 (100)
31	Electrical Machinery	160	(47)	161	(47)	22 (6)	343 (100)
32	Radio, TV,Communication Equip. & Appliances	56	(57)	38	(38)	5 (5)	99 (100)
33	Medical, Precision, Optical Instruments, Watches	23	(14)	139	(85)	2 (1)	164 (100)
34	Motor Vehicles,Trailers & Semi-Trailers	211	(58)	141	(39)	12 (3)	364 (100)
35	Transport Equipments	0	(0)	7	(100)	0 (0)	7 (100)
36	Furniture,Jewellery,sports goods,toys & stationery	59	(35)	62	(37)	48 (28)	169 (100)
101	Total	2517	(54)	1860	(40)	273 (6)	4650 (100)

* Figures in parenthesis indicate percentage of reporting units.

Table 8c: Industrywise- Vision of Growth of All units

2 digit Ind.	Industry Name	Like to remain as SSI	Like to grow to a larger unti	No Opinion	Total
15	Food Products & Beverages	304 (71)	117 (27)	9 (2)	430 (100)
17	Textiles	440 (52)	317 (38)	86 (10)	843 (100)
18	Wearing Apparels	173 (58)	124 (41)	2 (1)	299 (100)
19	Leather Products	132 (46)	121 (42)	33 (12)	286 (100)
21	Paper & Paper Products	9 (9)	89 (87)	4 (4)	102 (100)
23	Refined petroleum	97 (91)	10 (9)	0 0	107 (100)
24	Chemicals & Chemical Pdt	72 (40)	102 (56)	7 (4)	181 (100)
25	Rubber & Plastic Products	191 (91)	19 (9)	0 0	210 (100)
26	Non-metallic mineral Products	40 (34)	75 (64)	3 (3)	118 (100)
27	Basic Metals	152 (71)	51 (24)	10 (5)	213 (100)
28	Metal products	284 (55)	220 (42)	14 (3)	518 (100)
29	Machinery & Equipment	310 (44)	351 (50)	41 (6)	702 (100)
30	Office accounting & computing machinery	20 (80)	4 (16)	1 (4)	25 (100)
31	Electrical Machinery	169 (44)	195 (50)	24 (6)	388 (100)
32	Radio, TV,Communication Equip. & Appliances	72 (56)	50 (39)	6 (5)	128 (100)
33	Medical, Precision, Optical Instruments, Watches	28 (15)	158 (84)	2 (1)	188 (100)
34	Motor Vehicles, Trailers & Semi-Trailers	226 (55)	173 (42)	15 (4)	414 (100)
35	Transport Equipments	0 (0)	17 (100)	0 0	17 (100)
36	Furniture,Jewellery,sports goods,toys & stationery	65 (36)	66 (37)	48 (27)	179 (100)
101	Total	2784 (52)	2259 (42)	305 (6)	5348 (100)

* Figures in parenthesis indicate percentage of reporting units.

Table 9a: Industrywise- Value of Plant & Machinery of Units Performing R&D

2 digit Ind.	Industry name	Upto Rs. 10 lakhs	10-25 lakhs	25-60 lakhs	60-75 lakhs	75 lakhs-1 crore	Don't know	Total
15	Food Products & Beverages	28 (42)	25 (37)	6 (9)	5 (7)	3 (4)	0 (0)	67 (100)
17	Textiles	42 (40)	39 (37)	8 (8)	5 (5)	4 (4)	8 (8)	106 (100)
18	Wearing Apparels	11 (37)	11 (37)	6 (20)	0 (0)	1 (3)	1 (3)	30 (100)
19	Leather Products	16 (40)	7 (18)	9 (23)	2 (5)	4 (10)	2 (5)	40 (100)
21	Paper & Paper Products	10 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	10 (100)
23	Refined petroleum	1 (10)	6 (60)	3 (30)	0 (0)	0 (0)	0 (0)	10 (100)
24	Chemicals & Chemical Pds	6 (19)	11 (34)	9 (28)	3 (9)	2 (6)	1 (3)	32 (100)
25	Rubber & Plastic Products	10 (33)	13 (43)	2 (7)	2 (7)	3 (10)	0 (0)	30 (100)
26	Non-metallic mineral Products	3 (15)	14 (70)	3 (15)	0 (0)	0 (0)	0 (0)	20 (100)
27	Basic Metals	5 (16)	15 (47)	10 (31)	0 (0)	1 (3)	1 (3)	32 (100)
28	Metal products	31 (54)	19 (33)	5 (9)	1 (2)	1 (2)	0 (0)	57 (100)
29	Machinery & Equipment	49 (52)	26 (28)	7 (7)	2 (2)	2 (2)	8 (9)	94 (100)
30	Office accounting & computing machinery	0 (0)	0 (0)	0 (0)	1 (50)	0 (0)	1 (50)	2 (100)
31	Electrical Machinery	30 (67)	6 (13)	5 (11)	2 (4)	2 (4)	0 (0)	45 (100)
32	Radio, TV,Communication Equip. & Appliances	10 (34)	13 (45)	4 (14)	0 (0)	2 (7)	0 (0)	29 (100)
33	Medical, Precision, Optical Instruments, Watches	23 (96)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	24 (100)
34	Motor Vehicles,Trailers & Semi-Trailers	25 (50)	18 (36)	3 (6)	0 (0)	1 (2)	3 (6)	50 (100)
35	Transport Equipments	10 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	10 (100)
36	Furniture,Jewellery,sports goods,toys & stationery	4 (40)	6 (60)	0 (0)	0 (0)	0 (0)	0 (0)	10 (100)
101	Total	314 (45)	229 (33)	81 (12)	23 (3)	26 (4)	25 (4)	698 (100)

* Figures in parenthesis indicate percentage of reporting units.

Table 9b: Industrywise- Value of Plant & Machinery of Units Not Performing R&D

2 digit Ind.	Industry name	Upto Rs. 10 lakhs	10-25 lakhs	25-60 lakhs	60-75 lakhs	75 lakhs-1 crore	Don't know	Total
15	Food Products & Beverages	244 (67)	52 (14)	41 (11)	13 (4)	9 (2)	4 (1)	363 (100)
17	Textiles	591 (80)	73 (10)	10 (1)	1 (0)	1 (0)	61 (8)	737 (100)
18	Wearing Apparels	205 (76)	46 (17)	11 (4)	0 (0)	0 (0)	7 (3)	269 (100)
19	Leather Products	179 (73)	15 (6)	46 (19)	2 (1)	0 (0)	4 (2)	246 (100)
21	Paper & Paper Products	81 (88)	0 (0)	0 (0)	0 (0)	0 (0)	11 (12)	92 (100)
23	Refined petroleum	2 (2)	22 (23)	73 (75)	0 (0)	0 (0)	0 (0)	97 (100)
24	Chemicals & Chemical Pds	5 (3)	49 (33)	83 (56)	9 (6)	2 (1)	1 (1)	149 (100)
25	Rubber & Plastic Products	58 (32)	27 (15)	92 (51)	1 (1)	0 (0)	2 (1)	180 (100)
26	Non-metallic mineral Products	32 (33)	24 (24)	39 (40)	3 (3)	0 (0)	0 (0)	98 (100)
27	Basic Metals	48 (27)	85 (47)	40 (22)	6 (3)	1 (1)	1 (1)	181 (100)
28	Metal products	365 (79)	57 (12)	23 (5)	7 (2)	1 (0)	8 (2)	461 (100)
29	Machinery & Equipment	384 (63)	93 (15)	93 (15)	8 (1)	2 (0)	28 (5)	608 (100)
30	Office accounting & computing machinery	6 (26)	4 (17)	13 (57)	0 (0)	0 (0)	0 (0)	23 (100)
31	Electrical Machinery	240 (70)	46 (13)	46 (13)	1 (0)	5 (1)	5 (1)	343 (100)
32	Radio, TV,Communication Equip. & Appliances	34 (34)	25 (25)	34 (34)	3 (3)	0 (0)	3 (3)	99 (100)
33	Medical, Precision, Optical Instruments, Watches	160 (98)	2 (1)	0 (0)	0 (0)	0 (0)	2 (1)	164 (100)
34	Motor Vehicles,Trailers & Semi-Trailers	311 (85)	50 (14)	1 (0)	0 (0)	1 (0)	1 (0)	364 (100)
35	Transport Equipments	5 (71)	1 (14)	1 (14)	0 (0)	0 (0)	0 (0)	7 (100)
36	Furniture,Jewellery,sports goods,toys & stationery	123 (73)	44 (26)	2 (1)	0 (0)	0 (0)	0 (0)	169 (100)
101	Total	3073 (66)	715 (15)	648 (14)	54 (1)	22 (0)	138 (3)	4650 (100)

* Figures in parenthesis indicate percentage of reporting units.

Table 9c: Industrywise- Value of Plant & Machinery of All Units

2 digit Ind.	Industry name	Upto Rs. 10 lakhs	10-25 lakhs	25-60 lakhs	60-75 lakhs	75 lakhs-1 crore	Don't know	Total
15	Food Products & Beverages	272 (63)	77 (18)	47 (11)	18 (4)	12 (3)	4 (1)	430 (100)
17	Textiles	633 (75)	112 (13)	18 (2)	6 (1)	5 (1)	69 (8)	843 (100)
18	Wearing Apparels	216 (72)	57 (19)	17 (6)	0 (0)	1 (0)	8 (3)	299 (100)
19	Leather Products	195 (68)	22 (8)	55 (19)	4 (1)	4 (1)	6 (2)	286 (100)
21	Paper & Paper Products	91 (89)	0 (0)	0 (0)	0 (0)	0 (0)	11 (11)	102 (100)
23	Refined petroleum	3 (3)	28 (26)	76 (71)	0 (0)	0 (0)	0 (0)	107 (100)
24	Chemicals & Chemical Pds	11 (6)	60 (33)	92 (51)	12 (7)	4 (2)	2 (1)	181 (100)
25	Rubber & Plastic Products	68 (32)	40 (19)	94 (45)	3 (1)	3 (1)	2 (1)	210 (100)
26	Non-metallic mineral Products	35 (30)	38 (32)	42 (36)	3 (3)	0 (0)	0 (0)	118 (100)
27	Basic Metals	53 (25)	100 (47)	50 (23)	6 (3)	2 (1)	2 (1)	213 (100)
28	Metal products	396 (76)	76 (15)	28 (5)	8 (2)	2 (0)	8 (2)	518 (100)
29	Machinery & Equipment	433 (62)	119 (17)	100 (14)	10 (1)	4 (1)	36 (5)	702 (100)
30	Office accounting & computing machinery	6 (24)	4 (16)	13 (52)	1 (4)	0 (0)	1 (4)	25 (100)
31	Electrical Machinery	270 (70)	52 (13)	51 (13)	3 (1)	7 (2)	5 (1)	388 (100)
32	Radio, TV, Communication Equip. & Appliances	44 (34)	38 (30)	38 (30)	3 (2)	2 (2)	3 (2)	128 (100)
33	Medical, Precision, Optical Instruments, Watches	23 (96)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	24 (100)
34	Motor Vehicles, Trailers & Semi-Trailers	336 (81)	68 (16)	4 (1)	0 (0)	2 (0)	4 (1)	414 (100)
35	Transport Equipments	15 (88)	1 (6)	1 (6)	0 (0)	0 (0)	0 (0)	17 (100)
36	Furniture, Jewellery, sports goods, toys & stationery	127 (71)	50 (28)	2 (1)	0 (0)	0 (0)	0 (0)	179 (100)
101	Total	3227 (62)	942 (18)	729 (14)	77 (1)	48 (1)	161 (3)	5184[#] (100)

* Figures in parenthesis indicate percentage of reporting units. #: 164 units haven't responded.

Table 10a: Industrywise: Capacity Utilization in Units Performing R&D

2 digit Ind.	Industry name	Upto 20%	20-40%	40-60%	60-80%	80-100%	Not possible to quantify	No Response	Total
15	Food Products & Beverages	2 (3)	5 (7)	23 (34)	25 (37)	10 (15)	1 (1)	1 (1)	67 (100)
17	Textiles	3 (3)	9 (8)	26 (25)	35 (33)	15 (14)	18 (17)	0 (0)	106 (100)
18	Wearing Apparels	1 (3)	0 (0)	11 (37)	12 (40)	5 (17)	1 (3)	0 (0)	30 (100)
19	Leather Products	0 (0)	2 (5)	12 (30)	15 (38)	9 (23)	2 (5)	0 (0)	40 (100)
21	Paper & Paper Products	0 (0)	0 (0)	5 (50)	4 (40)	0 (0)	1 (10)	0 (0)	10 (100)
23	Refined petroleum	0 (0)	0 (0)	4 (40)	6 (60)	0 (0)	0 (0)	0 (0)	10 (100)
24	Chemicals & Chemical Pds	0 (0)	3 (9)	15 (47)	12 (38)	2 (6)	0 (0)	0 (0)	32 (100)
25	Rubber & Plastic Products	3 (10)	2 (7)	5 (17)	17 (57)	3 (10)	0 (0)	0 (0)	30 (100)
26	Non-metallic mineral Products	0 (0)	0 (0)	6 (30)	14 (70)	0 (0)	0 (0)	0 (0)	20 (100)
27	Basic Metals	3 (9)	2 (6)	4 (13)	13 (41)	9 (28)	1 (3)	0 (0)	32 (100)
28	Metal products	1 (2)	6 (11)	27 (47)	17 (30)	6 (11)	0 (0)	0 (0)	57 (100)
29	Machinery & Equipment	1 (1)	11 (12)	41 (44)	26 (28)	13 (14)	2 (2)	0 (0)	94 (100)
30	Office accounting & computing machinery	0 (0)	0 (0)	0 (0)	1 (50)	0 (0)	1 (50)	0 (0)	2 (100)
31	Electrical Machinery	2 (4)	8 (18)	7 (16)	12 (27)	8 (18)	8 (18)	0 (0)	45 (100)
32	Radio, TV, Communication Equip. & Appliances	1 (3)	5 (17)	10 (34)	6 (21)	5 (17)	1 (3)	1 (3)	29 (100)
33	Medical, Precision, Optical Instruments, Watches	3 (13)	3 (13)	7 (29)	9 (38)	2 (8)	0 (0)	0 (0)	24 (100)
34	Motor Vehicles, Trailers & Semi-Trailers	7 (14)	4 (8)	15 (30)	19 (38)	4 (8)	1 (2)	0 (0)	50 (100)
35	Transport Equipments	3 (30)	2 (20)	4 (40)	1 (10)	0 (0)	0 (0)	0 (0)	10 (100)
36	Furniture, Jewellery, sports goods, toys & stationery	0 (0)	2 (20)	1 (10)	3 (30)	4 (40)	0 (0)	0 (0)	10 (100)
101	Total	30 (4)	64 (9)	223 (32)	247 (35)	95 (14)	37 (5)	2 (0)	698 (100)

* Figures in parenthesis indicate percentage of reporting units.

Table 10b: Industrywise: Capacity Utilization in Units Not Performing R&D

2 digit Ind.	Industry name	Upto 20%	20-40%	40-60%	60-80%	80-100%	Not possible to quantify	No Response	Total
15	Food Products & Beverages	30 (8)	102 (28)	71 (20)	103 (28)	29 (8)	28 (8)	0 (0)	363 (100)
17	Textiles	21 (3)	219 (30)	179 (24)	232 (31)	24 (3)	59 (8)	3 (0)	737 (100)
18	Wearing Apparels	9 (3)	19 (7)	85 (32)	126 (47)	27 (10)	3 (1)	0 (0)	269 (100)
19	Leather Products	46 (19)	34 (14)	70 (28)	81 (33)	5 (2)	10 (4)	0 (0)	246 (100)
21	Paper & Paper Products	1 (1)	2 (2)	69 (75)	13 (14)	0 (0)	7 (8)	0 (0)	92 (100)
23	Refined petroleum	0 (0)	1 (1)	82 (85)	14 (14)	0 (0)	0 (0)	0 (0)	97 (100)
24	Chemicals & Chemical Pds	3 (2)	5 (3)	94 (63)	45 (30)	2 (1)	0 (0)	0 (0)	149 (100)
25	Rubber & Plastic Products	16 (9)	9 (5)	97 (54)	39 (22)	18 (10)	0 (0)	1 (1)	180 (100)
26	Non-metallic mineral Products	0 (0)	0 (0)	28 (29)	66 (67)	4 (4)	0 (0)	0 (0)	98 (100)
27	Basic Metals	2 (1)	3 (2)	49 (27)	81 (45)	46 (25)	0 (0)	0 (0)	181 (100)
28	Metal products	35 (8)	64 (14)	189 (41)	137 (30)	26 (6)	5 (1)	5 (1)	461 (100)
29	Machinery & Equipment	14 (2)	137 (23)	274 (45)	129 (21)	37 (6)	15 (2)	2 (0)	608 (100)
30	Office accounting & computing machinery	1 (4)	0 (0)	15 (65)	5 (22)	1 (4)	0 (0)	1 (4)	23 (100)
31	Electrical Machinery	28 (8)	67 (20)	107 (31)	73 (21)	60 (17)	7 (2)	1 (0)	343 (100)
32	Radio, TV, Communication Equip. & Appliances	3 (3)	6 (6)	43 (43)	31 (31)	10 (10)	3 (3)	3 (3)	99 (100)
33	Medical, Precision, Optical Instruments, Watches	8 (5)	23 (14)	33 (20)	70 (43)	30 (18)	0 (0)	0 (0)	164 (100)
34	Motor Vehicles, Trailers & Semi-Trailers	16 (4)	26 (7)	174 (48)	110 (30)	17 (5)	20 (5)	1 (0)	364 (100)
35	Transport Equipments	0 (0)	4 (57)	2 (29)	1 (14)	0 (0)	0 (0)	0 (0)	7 (100)
36	Furniture, Jewellery, sports goods, toys & stationery	1 (1)	5 (3)	14 (8)	110 (65)	39 (23)	0 (0)	0 (0)	169 (100)
101	Total	234 (5)	726 (16)	1675 (36)	1466 (32)	375 (8)	157 (3)	17 (0)	4650 (100)

* Figures in parenthesis indicate percentage of reporting units.

Table 10c: Industrywise: Capacity Utilization in All Units

2 digit Ind.	Industry name	Upto 20%	20-40%	40-60%	60-80%	80-100%	Not possible to quantify	No Response	Total
15	Food Products & Beverages	32 (7)	107 (25)	94 (22)	128 (30)	39 (9)	29 (7)	1 (0)	430 (100)
17	Textiles	24 (3)	228 (27)	205 (24)	267 (32)	39 (5)	77 (9)	3 (0)	843 (100)
18	Wearing Apparels	10 (3)	19 (6)	96 (32)	138 (46)	32 (11)	4 (1)	0 (0)	299 (100)
19	Leather Products	46 (16)	36 (13)	82 (29)	96 (34)	14 (5)	12 (4)	0 (0)	286 (100)
21	Paper & Paper Products	1 (1)	2 (2)	74 (73)	17 (17)	0 (0)	8 (8)	0 (0)	102 (100)
23	Refined petroleum	0 (0)	1 (1)	86 (80)	20 (19)	0 (0)	0 (0)	0 (0)	107 (100)
24	Chemicals & Chemical Pds	3 (2)	8 (4)	109 (60)	57 (31)	4 (2)	0 (0)	0 (0)	181 (100)
25	Rubber & Plastic Products	19 (9)	11 (5)	102 (49)	56 (27)	21 (10)	0 (0)	1 (0)	210 (100)
26	Non-metallic mineral Products	0 (0)	0 (0)	34 (29)	80 (68)	4 (3)	0 (0)	0 (0)	118 (100)
27	Basic Metals	5 (2)	5 (2)	53 (25)	94 (44)	55 (26)	1 (0)	0 (0)	213 (100)
28	Metal products	36 (7)	70 (14)	216 (42)	154 (30)	32 (6)	5 (1)	5 (1)	518 (100)
29	Machinery & Equipment	15 (2)	148 (21)	315 (45)	155 (22)	50 (7)	17 (2)	2 (0)	702 (100)
30	Office acounting & computing machinery	1 (4)	0 (0)	15 (60)	6 (24)	1 (4)	1 (4)	1 (4)	25 (100)
31	Electrical Machinery	30 (8)	75 (19)	114 (29)	85 (22)	68 (18)	15 (4)	1 (0)	388 (100)
32	Radio, TV,Communication Equip. & Appliances	4 (3)	11 (9)	53 (41)	37 (29)	15 (12)	4 (3)	4 (3)	128 (100)
33	Medical, Precision, Optical Instruments, Watches	11 (6)	26 (14)	40 (21)	79 (42)	32 (17)	0 (0)	0 (0)	188 (100)
34	Motor Vehicles, Trailers & Semi-Trailers	23 (6)	30 (7)	189 (46)	129 (31)	21 (5)	21 (5)	1 (0)	414 (100)
35	Transport Equipments	3 (18)	6 (35)	6 (35)	2 (12)	0 (0)	0 (0)	0 (0)	17 (100)
36	Furniture, Jewellery, sports goods, toys & stationery	1 (1)	7 (4)	15 (8)	113 (63)	43 (24)	0 (0)	0 (0)	179 (100)
101	Total	264 (5)	790 (15)	1898 (35)	1713 (32)	470 (9)	194 (4)	19 (0)	5348 (100)

* Figures in parenthesis indicate percentage of reporting units.

Table 11a: Industrywise: Number of Employees of Units Performing R&D

2 digit Ind.	Industry Name	2001-2000		1999-2000		1998-1999		1997-1998		1996-1997	
		Rep. Units	No. of emp.	Rep. Units	No. of emp.	Rep. Units	No. of emp.	Rep. Units	No. of emp.	Rep. Units	No. of emp.
15	Food Products & Beverages	67	1516	67	1516	65	1429	63	1390	60	1296
17	Textiles	106	3209	104	3197	102	3266	101	3405	102	3611
18	Wearing Apparels	30	1800	30	1713	28	1383	28	1320	24	1018
19	Leather Products	40	2864	40	2592	40	2493	40	2426	40	2237
21	Paper & Paper Products	10	188	10	183	10	160	10	161	10	153
23	Refined petroleum	10	115	10	117	10	121	10	122	10	122
24	Chemicals & Chemical Pdts	32	2062	30	1986	26	1809	22	1655	20	1561
25	Rubber & Plastic Products	30	779	30	727	29	676	19	566	19	519
26	Non-metallic mineral Products	20	336	20	328	20	335	19	328	18	315
27	Basic Metals	32	1194	32	1118	32	1071	32	974	31	901
28	Metal products	57	1747	56	1663	56	1461	55	1235	53	1185
29	Machinery & Equipment	94	1634	94	1572	91	1409	90	1368	90	1325
30	Office accounting & computing machinery	2	102	2	67	2	70	2	68	2	65
31	Electrical Machinery	45	1014	45	944	45	894	44	863	44	820
32	Radio, TV,Communication Equip. & Appliances	29	767	29	725	26	592	24	487	23	397
33	Medical, Precision, Optical Instruments, Watches	24	175	24	172	24	167	24	162	24	159
34	Motor Vehicles,Trailers & Semi-Trailers	50	2408	50	2399	50	2446	49	2332	49	2429
35	Transport Equipments	10	159	10	159	10	179	10	181	10	236
36	Furniture,Jewellery,sports goods,toys & stationery	10	122	10	110	10	100	10	93	6	55
101	Total	698	22191	693[#]	21288	676[#]	20061	652[#]	19136	635[#]	18404

total number of units is less than 698 due to non responses by some units.

Table 11b: Industrywise: Number of Employees of Units Not Performing-R&D

2 digit Ind.	Industry Name	2001-2000		1999-2000		1998-1999		1997-1998		1996-1997	
		Rep. Units	No. of emp.	Rep. Units	No. of emp.	Rep. Units	No. of emp.	Rep. Units	No. of emp.	Rep. Units	No. of emp.
15	Food Products & Beverages	363	4963	360	4966	358	4888	353	4846	349	4733
17	Textiles	737	9025	732	8764	709	8467	704	8320	676	8040
18	Wearing Apparels	269	4107	269	3912	261	3375	254	3111	237	2819
19	Leather Products	246	3615	244	3402	241	3410	238	3379	232	3318
21	Paper & Paper Products	92	697	92	683	92	632	92	575	91	553
23	Refined petroleum	97	898	94	872	94	854	94	856	92	845
24	Chemicals & Chemical Pdts	149	3283	148	3137	146	2994	141	2365	135	2233
25	Rubber & Plastic Products	180	2282	177	2275	175	2178	171	2051	168	1952
26	Non-metallic mineral Products	98	1324	98	1192	98	1151	98	1166	98	1097
27	Basic Metals	181	4949	181	4756	178	4582	172	4448	167	4300
28	Metal products	461	4388	456	4323	442	4023	417	3807	392	3694
29	Machinery & Equipment	608	5983	607	5930	605	5714	592	5350	587	5280
30	Office accounting & computing machinery	23	181	23	177	22	166	20	136	20	138
31	Electrical Machinery	343	3632	339	3474	331	3336	326	2932	321	2670
32	Radio, TV,Communication Equip. & Appliances	99	2498	97	2378	94	2196	87	1923	77	1467
33	Medical, Precision, Optical Instruments, Watches	164	1033	159	937	158	859	152	802	148	723
34	Motor Vehicles,Trailers & Semi-Trailers	364	8779	363	8970	357	9099	350	9638	343	9466
35	Transport Equipments	7	96	7	100	7	117	7	127	7	139
36	Furniture,Jewellery,sports goods,toys & stationery	169	1005	166	930	163	857	151	719	119	458
101	Total	4650	62738	4612[#]	61178	4531[#]	58898	4419[#]	56551	4259[#]	53925

total number of units is less than 4650 due to non responses by some units.

Table 11c: Industrywise- Number of Employees for All Units

2 digit Ind.	Industry Name	2001-2000		1999-2000		1998-1999		1997-1998		1996-1997	
		Rep. Units	No. of emp.	Rep. Units	No. of emp.	Rep. Units	No. of emp.	Rep. Units	No. of emp.	Rep. Units	No. of emp.
15	Food Products & Beverages	430	6479	427	6482	423	6317	416	6236	409	6029
17	Textiles	843	12234	836	11961	811	11733	805	11725	778	11651
18	Wearing Apparels	299	5907	299	5625	289	4758	282	4431	261	3837
19	Leather Products	286	6479	284	5994	281	5903	278	5805	272	5555
21	Paper & Paper Products	102	885	102	866	102	792	102	736	101	706
23	Refined petroleum	107	1013	104	989	104	975	104	978	102	967
24	Chemicals & Chemical Pdts	181	5345	178	5123	172	4803	163	4020	155	3794
25	Rubber & Plastic Products	210	3061	207	3002	204	2854	190	2617	187	2471
26	Non-metallic mineral Products	118	1660	118	1520	118	1486	117	1494	116	1412
27	Basic Metals	213	6143	213	5874	210	5653	204	5422	198	5201
28	Metal products	518	6135	512	5986	498	5484	472	5042	445	4879
29	Machinery & Equipment	702	7617	701	7502	696	7123	682	6718	677	6605
30	Office accounting & computing machinery	25	283	25	244	24	236	22	204	22	203
31	Electrical Machinery	388	4646	384	4418	376	4230	370	3795	365	3490
32	Radio, TV,Communication Equip. & Appliances	128	3265	126	3103	120	2788	111	2410	100	1864
33	Medical, Precision, Optical Instruments, Watches	188	1208	183	1109	182	1026	176	964	172	882
34	Motor Vehicles,Trailers & Semi-Trailers	414	11187	413	11369	407	11545	399	11970	392	11895
35	Transport Equipments	17	255	17	259	17	296	17	308	17	375
36	Furniture,Jewellery,sports goods,toys & stationery	179	1127	176	1040	173	957	161	812	125	513
101	Total	5348	84929	5305*	82466	5207*	78959	5071*	75687	4894*	72329

total number of units is less than 5348 due to non responses by some units.

Table 11d :Industrywise -Qualifications of R & D Personnel (Full-time) - March 2001

2 digit ind	Industry Name	Male							Female							Total			
		Ph.D	Post Graduate	Engineering	B-Tech	Engg + B-Tech	Graduate	Diploma	Apprentice / ITI	Total	Ph.D	Post Graduate	Engineering	B-Tech	Engg + B-Tech		Graduate	Diploma	Apprentice / ITI
15	Food Products & Beverages	2	18	18	7	25	51	22	9	127	0	3	0	1	1	4	1	0	9
17	Textiles	1	22	22	16	38	86	51	31	229	0	2	1	0	1	1	1	0	5
18	Wearing Apparels	0	0	16	0	16	10	51	18	95	0	0	0	0	0	2	6	0	8
19	Leather Products	0	3	22	9	31	48	34	23	139	0	0	0	0	0	3	1	0	4
21	Paper & Paper Products	0	0	0	0	0	3	1	0	4	0	0	0	0	0	0	0	0	0
23	Refined petroleum	4	0	4	0	4	1	0	0	9	0	0	0	0	0	0	0	0	0
24	Chemicals & Chemical Pdtis	15	23	19	8	27	44	13	4	126	0	4	2	1	3	17	2	1	27
25	Rubber & Plastic Products	2	1	19	1	20	6	18	18	65	0	0	0	0	0	0	0	0	0
26	Non-metallic mineral Products	0	0	0	1	1	18	30	10	59	0	0	0	0	0	1	0	0	1
27	Basic Metals	0	2	19	3	22	13	28	5	70	0	0	0	0	0	0	0	0	0
28	Metal products	2	8	35	13	48	33	18	16	125	0	0	0	0	0	0	0	0	0
29	Machinery & Equipment	4	9	65	5	70	51	28	26	188	0	1	1	0	1	1	0	0	3
30	Office accounting & computing machinery	0	8	8	4	12	1	6	2	29	0	1	2	1	3	1	1	0	6
31	Electrical Machinery	0	8	43	4	47	22	12	5	94	0	0	5	0	5	1	1	0	7
32	Radio, TV, Communication Equip. & Appliances	1	1	31	7	38	8	24	13	85	0	0	1	6	7	0	4	0	11
33	Medical, Precision, Optical Instruments, Watches	4	0	5	3	8	8	19	5	44	0	0	0	0	0	0	0	0	0
34	Motor Vehicles, Trailers & Semi-Trailers	0	6	38	13	51	27	30	15	129	0	0	0	1	1	6	0	4	0
35	Transport Equipments	0	0	4	0	4	11	0	0	15	0	0	0	0	0	0	0	0	0
36	Furniture, Jewellery, sports goods, toys & stationery	0	3	5	0	5	10	0	0	18	0	0	0	0	0	0	0	0	0
101	Total	35	112	373	94	467	451	385	200	1650	0	11	12	10	22	32	17	1	83

Table 11e :Industrywise -Qualifications of R & D Personnel (Part-time) -March 2001

2 digit ind	Industry Name	Male						Female									
		Ph.D	Post Graduate	Engineering	B-Tech	Graduate	Diploma	Apprentice / ITI	Total	Ph.D	Post Graduate	Engineering	B-Tech	Graduate	Diploma	Apprentice / ITI	Total
15	Food Products & Beverages	0	3	0	0	3	0	0	6	0	1	0	0	1	0	0	2
17	Textiles	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
18	Wearing Apparels	0	0	1	0	0	3	0	4	0	0	0	0	0	0	0	0
19	Leather Products	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	Paper & Paper Products	0	0	0	0	5	2	0	7	0	0	0	0	0	0	0	0
23	Refined petroleum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	Chemicals & Chemical Pds	2	0	0	0	2	0	0	4	0	0	0	0	0	0	0	0
25	Rubber & Plastic Products	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	Non-metallic mineral Products	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	Basic Metals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	Metal products	0	1	12	0	0	0	0	13	0	0	0	0	0	0	0	0
29	Machinery & Equipment	0	0	2	0	1	2	0	5	0	0	0	0	0	0	0	0
30	Office accounting & computing machinery	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	Electrical Machinery	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	1
32	Radio, TV, Communication Equip. & Appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	Medical, Precision, Optical Instruments, Watches	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0
34	Motor Vehicles, Trailers & Semi-Trailers	0	0	3	1	11	1	0	6	0	0	0	0	0	0	0	0
35	Transport Equipments	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	Furniture, Jewellery, sports goods, toys & stationery	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
101	Total	2	4	19	1	12	10	1	49	0	1	0	0	1	1	0	3

Table 12a: Industrywise- Turnover in Units Performing R&D (Rs. Lakh)

2 digit Ind.	Industry Name	2000-2001		1999-2000		1998-1999	
		Reporting units	Turnover	Reporting units	Turnover	Reporting units	Turnover
15	Food Products & Beverages	67	16730	67	16051	59	13527
17	Textiles	106	22538	105	21394	102	18880
18	Wearing Apparels	30	12542	30	11261	28	9794
19	Leather Products	40	20891	40	17767	40	15786
21	Paper & Paper Products	10	274	10	259	10	251
23	Refined Petroleum	10	747	10	619	10	530
24	Chemicals & Chemical Pds	32	12172	32	10324	30	7909
25	Rubber & Plastic Products	30	6628	30	6046	29	5430
26	Non-metallic mineral Products	20	300	20	271	20	285
27	Basic Metals	32	4002	32	3725	31	3348
28	Metal products	57	8276	56	7701	56	6648
29	Machinery & Equipment	94	8860	93	8152	82	6488
30	Office accounting & computing machinery	2	930	2	840	2	615
31	Electrical Machinery	45	6636	45	4313	44	3529
32	Radio, TV, Communication Equip. & Appliances	29	6201	29	6144	27	5535
33	Medical, Precision, Optical Instruments, Watches	24	1270	24	936	24	855
34	Motor Vehicles, Trailers & Semi-Trailers	50	11730	50	10360	50	9245
35	Transport Equipments	10	429	10	418	10	438
36	Furniture, Jewellery, sports goods, toys & stationery	10	145	10	145	10	144
101	Total	698	141300	695[#]	126725	664[#]	109238

total number of units is less than 698 due to non responses by some units.

Table 12b: Industrywise- Turnover in Units Not Performing R&D (Rs. Lakh)

2 digit Ind.	Industry Name	2000-2001		1999-2000		1998-1999	
		Reporting units	Turnover	Reporting units	Turnover	Reporting units	Turnover
15	Food Products & Beverages	362	47458	327	41364	275	32507
17	Textiles	737	22660	732	21022	707	19318
18	Wearing Apparels	269	15810	269	15074	261	14421
19	Leather Products	246	10579	244	9119	241	9030
21	Paper & Paper Products	92	876	92	826	92	775
23	Refined Petroleum	94	7681	93	6739	93	5965
24	Chemicals & Chemical Pds	138	22647	137	20692	135	18929
25	Rubber & Plastic Products	180	10615	177	10057	175	9605
26	Non-metallic mineral Products	98	1563	98	1442	98	1389
27	Basic Metals	180	11909	179	11194	176	10648
28	Metal products	450	10705	444	9806	429	9343
29	Machinery & Equipment	608	25095	579	22786	528	18280
30	Office accounting & computing machinery	23	687	23	636	23	556
31	Electrical Machinery	336	12566	334	11806	331	10626
32	Radio, TV, Communication Equip. & Appliances	96	13356	94	12763	92	11943
33	Medical, Precision, Optical Instruments, Watches	162	1479	160	1464	159	1257
34	Motor Vehicles, Trailers & Semi-Trailers	349	17892	345	17402	339	17184
35	Transport Equipments	5	1150	5	1157	5	1134
36	Furniture, Jewellery, sports goods, toys & stationery	168	826	166	775	163	726
101	Total	4593[#]	235554	4498[#]	216122	4322[#]	193635

total number of units is less than 4650 due to non responses by some units.

Table 12c: Turnover in All Units (Rs. Lakh)

2 digit Ind.	Industry Name	2000-2001		1999-2000		1998-1999	
		Reporting units	Turnover	Reporting units	Turnover	Reporting units	Turnover
15	Food Products & Beverages	429	64188	394	57416	334	46034
17	Textiles	843	45197	837	42416	809	38199
18	Wearing Apparels	299	28352	299	26335	289	24215
19	Leather Products	286	31470	284	26886	281	24816
21	Paper & Paper Products	102	1150	102	1085	102	1026
23	Refined petroleum	104	8428	103	7358	103	6495
24	Chemicals & Chemical Pdtls	170	34819	169	31016	165	26838
25	Rubber & Plastic Products	210	17243	207	16102	204	15035
26	Non-metallic mineral Products	118	1863	118	1713	118	1674
27	Basic Metals	212	15911	211	14919	207	13995
28	Metal products	507	18981	500	17507	485	15991
29	Machinery & Equipment	702	33955	672	30937	610	24768
30	Office accounting & computing machinery	25	1617	25	1476	25	1171
31	Electrical Machinery	381	19202	379	16119	375	14155
32	Radio, TV, Communication Equip. & Appliances	125	19557	123	18907	119	17478
33	Medical, Precision, Optical Instruments, Watches	186	2749	184	2400	183	2113
34	Motor Vehicles, Trailers & Semi-Trailers	399	29622	395	27762	389	26429
35	Transport Equipments	15	1579	15	1575	15	1572
36	Furniture, Jewellery, sports goods, toys & stationery	178	971	176	920	173	870
101	Total	5291[#]	376854	5193[#]	342848	4986[#]	302872

total number of units is less than 5348 due to non responses by some units.

Table 13a: Industrywise Exports of Units Performing R&D(Rs. Lakh)

2 digit Ind.	Industry Name	2001-2000		1999-2000		1998-1999		1997-1998		1996-1997	
		Rep. Units	Exports	Rep. Units	Exports	Rep. Units	Exports	Rep. Units	Exports	Rep. Units	Exports
15	Food Products & Beverages	14	3026	14	3570	14	3193	14	3117	13	2756
17	Textiles	48	16234	48	15592	45	13422	43	12001	43	12619
18	Wearing Apparels	20	9769	20	8575	18	7246	17	6544	11	5235
19	Leather Products	27	16452	27	13405	27		26	18660	26	15911
21	Paper & Paper Products	7	112	7	101	7	98	7	82	6	71
23	Refined petroleum	0	0	0	0	0	0	0	0	0	0
24	Chemicals & Chemical Pdts	11	1079	9	956	7	577	6	458	4	308
25	Rubber & Plastic Products	1	170	1	7	1	3	0	0	0	0
26	Non-metallic mineral Products	0	0	0	0	0	0	0	0	0	0
27	Basic Metals	0	0	0	0	0	0	0	0	0	0
28	Metal products	6	3982	6	3724	6	2335	4	1986	4	1933
29	Machinery & Equipment	9	358	9	372	3	134	1	100	1	200
30	Office accounting & computing machinery	0	0	0	0	0	0	0	0	0	0
31	Electrical Machinery	10	494	9	301	8	180	7	146	6	99
32	Radio, TV,Communication Equip. & Appliances	4	2300	5	2261	4	1997	4	3331	3	397
33	Medical, Precision, Optical Instruments, Watches	4	374	4	198	3	128	3	293	3	271
34	Motor Vehicles,Trailers & Semi-Trailers	14	2687	13	1767	12	1301	11	962	8	798
35	Transport Equipments	0	0	0	0	0	0	0	0	0	0
36	Furniture,Jewellery,sports goods,toys & stationery	0	0	0	0	0	0	0	0	0	0
101	Total	175	57036	172	50827	155	43014	143	45464	128	40598

Table 13b: Industrywise Exports of Units Not Performing R&D (Rs. Lakh)

2 digit Ind.	Industry Name	2001-2000		1999-2000		1998-1999		1997-1998		1996-1997	
		Rep. Units	Exports	Rep. Units	Exports	Rep. Units	Exports	Rep. Units	Exports	Rep. Units	Exports
15	Food Products & Beverages	26	5395	26	5346	26	4293	25	2907	25	3352
17	Textiles	49	1089	50	1052	49	597	48	520	48	433
18	Wearing Apparels	30	728	25	692	23	661	22	614	22	588
19	Leather Products	9	1469	9	1324	8	1174	8	1132	8	1114
21	Paper & Paper Products	10	19	10	26	10	18	10	14	10	20
23	Refined petroleum	0	0	0	0	0	0	0	0	0	0
24	Chemicals & Chemical Pdts	4	1475	4	1300	3	875	2	600	2	600
25	Rubber & Plastic Products	1	14	1	112	1	128	1	175	1	275
26	Non-metallic mineral Products	0	0	0	0	0	0	0	0	0	0
27	Basic Metals	0	0	0	0	0	0	0	0	0	0
28	Metal products	6	753	4	143	4	229	3	123	3	150
29	Machinery & Equipment	10	472	9	112	3	70	3	63	3	67
30	Office accounting & compuling machinery	1	18	1	17	0	0	0	0	0	0
31	Electrical Machinery	11	410	8	380	6	264	6	243	6	262
32	Radio, TV,Communication Equip. & Appliances	7	335	6	318	5	243	3	36	3	134
33	Medical, Precision, Optical Instruments, Watches	0	0	0	0	0	0	0	0	0	0
34	Motor Vehicles,Trailers & Semi-Trailers	12	226	11	240	6	247	6	268	4	216
35	Transport Equipments	0	0	0	0	0	0	0	0	0	0
36	Furniture,Jewellery,sports goods,toys & stationery	0	0	0	0	0	0	0	0	0	0
101	Total	176	12404	164	11064	144	8799	137	6695	135	7210

Table 13c: Industrywise- Exports of All Units (Rs. Lakh)

2 digit Ind.	Industry Name	2001-2000		1999-2000		1998-1999		1997-1998		1996-1997	
		Rep. Units	Exports	Rep. Units	Exports	Rep. Units	Exports	Rep. Units	Exports	Rep. Units	Exports
15	Food Products & Beverages	40	8421	40	8916	40	7486	39	6024	38	6107
17	Textiles	97	17323	98	16644	94	14019	91	12521	91	13052
18	Wearing Apparels	50	10497	45	9267	41	7907	39	7158	33	5823
19	Leather Products	36	17921	36	14729	35	13574	34	19792	34	17025
21	Paper & Paper Products	17	131	17	127	17	117	17	97	16	91
23	Refined petroleum	0	0	0	0	0	0	0	0	0	0
24	Chemicals & Chemical Pds	15	2554	13	2256	10	1452	8	1058	6	908
25	Rubber & Plastic Products	2	184	2	119	2	131	1	175	1	275
26	Non-metallic mineral Products	0	0	0	0	0	0	0	0	0	0
27	Basic Metals	0	0	0	0	0	0	0	0	0	0
28	Metal products	12	4735	10	3867	10	2564	7	2109	7	2083
29	Machinery & Equipment	19	830	18	484	6	204	4	163	4	267
30	Office accounting & computing machinery	1	18	1	17	0	0	0	0	0	0
31	Electrical Machinery	21	904	17	681	14	444	13	389	12	361
32	Radio, TV, Communication Equip. & Appliances	11	2635	11	2579	9	2240	7	1151	6	531
33	Medical, Precision, Optical Instruments, Watches	4	374	4	198	3	128	3	293	3	271
34	Motor Vehicles, Trailers & Semi-Trailers	26	2913	24	2007	18	1548	17	1230	12	1014
35	Transport Equipments	0	0	0	0	0	0	0	0	0	0
36	Furniture, Jewellery, sports goods, toys & stationery	0	0	0	0	0	0	0	0	0	0
101	Total	351	69440	336	61891	299	51813	280	52158	263	47808

Table 14a: Industrywise- Use of IT by Units Performing R&D						
2 digit ind.	Industry Name	No. of units using IT		No. of units not using IT		Total
15	Food Products & Beverages	38	(57)	29	(43)	67 (100)
17	Textiles	63	(59)	43	(41)	106 (100)
18	Wearing Apparels	18	(60)	12	(40)	30 (100)
19	Leather Products	22	(55)	18	(45)	40 (100)
21	Paper & Paper Products	5	(50)	5	(50)	10 (100)
23	Refined petroleum	5	(50)	5	(50)	10 (100)
24	Chemicals & Chemical Pdts	23	(72)	9	(28)	32 (100)
25	Rubber & Plastic Products	11	(37)	19	(63)	30 (100)
26	Non-metallic mineral Products	14	(70)	6	(30)	20 (100)
27	Basic Metals	9	(28)	23	(72)	32 (100)
28	Metal products	45	(79)	12	(21)	57 (100)
29	Machinery & Equipment	60	(64)	34	(36)	94 (100)
30	Office accounting & computing machinery	2	(100)	0	(0)	2 (100)
31	Electrical Machinery	38	(84)	7	(16)	45 (100)
32	Radio, TV, Communication Equip. & Appliances	19	(66)	10	(34)	29 (100)
33	Medical, Precision, Optical Instruments, Watches	10	(42)	14	(58)	24 (100)
34	Motor Vehicles, Trailers & Semi-Trailers	42	(84)	8	(16)	50 (100)
35	Transport Equipments	2	(20)	8	(80)	10 (100)
36	Furniture, Jewellery, sports goods, toys & stationery	6	(60)	4	(40)	10 (100)
101	Total	432	(62)	266	(38)	698 (100)

* Figures in parenthesis indicate percentage of reporting units.

Table 14b: Industrywise- Use of IT by Units Not Performing R&D						
2 digit ind.	Industry Name	No. of units using IT		No. of units not using IT		Total
15	Food Products & Beverages	97	(27)	266	(73)	363 (100)
17	Textiles	138	(19)	599	(81)	737 (100)
18	Wearing Apparels	64	(24)	205	(76)	269 (100)
19	Leather Products	5	(2)	241	(98)	246 (100)
21	Paper & Paper Products	3	(3)	89	(97)	92 (100)
23	Refined petroleum	5	(5)	92	(95)	97 (100)
24	Chemicals & Chemical Pdts	70	(47)	79	(53)	149 (100)
25	Rubber & Plastic Products	43	(24)	137	(76)	180 (100)
26	Non-metallic mineral Products	50	(51)	48	(49)	98 (100)
27	Basic Metals	33	(18)	148	(82)	181 (100)
28	Metal products	71	(15)	390	(85)	461 (100)
29	Machinery & Equipment	169	(28)	439	(72)	608 (100)
30	Office accounting & computing machinery	12	(52)	11	(48)	23 (100)
31	Electrical Machinery	150	(44)	193	(56)	343 (100)
32	Radio, TV, Communication Equip. & Appliances	52	(53)	47	(47)	99 (100)
33	Medical, Precision, Optical Instruments, Watches	39	(24)	125	(76)	164 (100)
34	Motor Vehicles, Trailers & Semi-Trailers	170	(47)	194	(53)	364 (100)
35	Transport Equipments	3	(43)	4	(57)	7 (100)
36	Furniture, Jewellery, sports goods, toys & stationery	10	(6)	159	(94)	169 (100)
101	Total	1184	(25)	3466	(75)	4650 (100)

* Figures in parenthesis indicate percentage of reporting units.

2 digit ind.	Industry Name	No. of units using IT	No. of units not using IT	Total
15	Food Products & Beverages	135 (31)	295 (69)	430 (100)
17	Textiles	201 (24)	642 (76)	843 (100)
18	Wearing Apparels	82 (27)	217 (73)	299 (100)
19	Leather Products	27 (9)	259 (91)	286 (100)
21	Paper & Paper Products	8 (8)	94 (92)	102 (100)
23	Refined petroleum	10 (9)	97 (91)	107 (100)
24	Chemicals & Chemical Pdt	93 (51)	88 (49)	181 (100)
25	Rubber & Plastic Products	54 (26)	156 (74)	210 (100)
26	Non-metallic mineral Products	64 (54)	54 (46)	118 (100)
27	Basic Metals	42 (20)	171 (80)	213 (100)
28	Metal products	116 (22)	402 (78)	518 (100)
29	Machinery & Equipment	229 (33)	473 (67)	702 (100)
30	Office accounting & computing machinery	14 (56)	11 (44)	25 (100)
31	Electrical Machinery	188 (48)	200 (52)	388 (100)
32	Radio, TV,Communication Equip. & Appliances	71 (55)	57 (45)	128 (100)
33	Medical, Precision, Optical Instruments, Watches	49 (26)	139 (74)	188 (100)
34	Motor Vehicles,Trailers & Semi-Trailers	212 (51)	202 (49)	414 (100)
35	Transport Equipments	5 (29)	12 (71)	17 (100)
36	Furniture,Jewellery,sports goods,toys & stationery	16 (9)	163 (91)	179 (100)
101	Total	1616 (30)	3732 (70)	5348 (100)

* Figures in parenthesis indicate percentage of reporting units.

Table 15a: Industrywise- IT as an Enabler of Various Activities in Units Performing R&D

2 digit Ind.	Industry Name	Computerised invoicing	Inventory mgmt	ERP	MIS	CAD	CAM	E-business	Other Reasons	No Response	Total
15	Food Products & Beverages	30 (20)	21 (14)	4 (3)	9 (6)	6 (4)	3 (2)	11 (7)	4 (3)	64 (42)	152 (100)
17	Textiles	58 (23)	36 (14)	2 (1)	0 (0)	30 (12)	5 (2)	9 (4)	2 (1)	110 (44)	252 (100)
18	Wearing Apparels	12 (17)	5 (7)	0 (0)	0 (0)	3 (4)	1 (1)	0 (0)	1 (1)	50 (69)	72 (100)
19	Leather Products	20 (23)	11 (13)	5 (6)	3 (3)	7 (8)	1 (1)	3 (3)	0 (0)	38 (43)	88 (100)
21	Paper & Paper Products	5 (25)	3 (15)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	11 (55)	20 (100)
23	Refined petroleum	5 (25)	5 (25)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	10 (50)	20 (100)
24	Chemicals & Chemical Pdts	21 (23)	6 (7)	0 (0)	2 (2)	8 (9)	3 (3)	3 (3)	0 (0)	49 (53)	92 (100)
25	Rubber & Plastic Products	10 (23)	8 (18)	1 (2)	4 (9)	2 (5)	1 (2)	2 (5)	0 (0)	16 (36)	44 (100)
26	Non-metallic mineral Products	13 (23)	2 (4)	0 (0)	0 (0)	2 (4)	0 (0)	1 (2)	0 (0)	38 (68)	56 (100)
27	Basic Metals	6 (17)	2 (6)	4 (11)	1 (3)	5 (14)	2 (6)	0 (0)	0 (0)	16 (44)	36 (100)
28	Metal products	23 (13)	11 (6)	4 (2)	20 (11)	29 (16)	9 (5)	2 (1)	1 (1)	81 (45)	180 (100)
29	Machinery & Equipment	32 (13)	29 (12)	8 (3)	10 (4)	18 (8)	5 (2)	0 (0)	0 (0)	127 (53)	240 (100)
30	Office accounting & computing machinery	1 (13)	2 (25)	0 (0)	2 (25)	2 (25)	0 (0)	0 (0)	0 (0)	1 (13)	8 (100)
31	Electrical Machinery	20 (13)	25 (16)	2 (1)	16 (11)	18 (12)	4 (3)	3 (2)	0 (0)	64 (42)	152 (100)
32	Radio, TV,Communication Equip. & Appliances	13 (17)	10 (13)	3 (4)	2 (3)	8 (11)	2 (3)	1 (1)	1 (1)	36 (47)	76 (100)
33	Medical, Precision, Optical Instruments, Watches	7 (18)	1 (3)	1 (3)	1 (3)	3 (8)	0 (0)	0 (0)	1 (3)	26 (65)	40 (100)
34	Motor Vehicles, Trailers & Semi-Trailers	40 (24)	26 (15)	3 (2)	9 (5)	23 (14)	7 (4)	2 (1)	1 (1)	57 (34)	168 (100)
35	Transport Equipments	2 (25)	2 (25)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	4 (50)	8 (100)
36	Furniture, Jewellery, sports goods, toys & stationery	5 (21)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	1 (4)	17 (71)	24 (100)
101	Total	323 (19)	205 (12)	37 (2)	79 (5)	166 (10)	43 (2)	44 (3)	16 (1)	815 (47)	1728* (100)

* Figures in parenthesis indicate percentage of reporting units. # no. of total units is more than 432 (see table 14a) due to multiple response.

Table 15b: Industrywise- IT as an Enabler of Various Activities in Units Not Performing R&D

2 digit Ind.	Industry Name	Computerised invoicing	Inventory mgmt	ERP	MIS	CAD	CAM	E-business	Other Reasons	No Response	Total
15	Food Products & Beverages	90 (23)	65 (17)	8 (2)	10 (3)	7 (2)	3 (1)	23 (6)	1 (0)	181 (47)	388 (100)
17	Textiles	129 (23)	88 (16)	1 (0)	1 (0)	0 (0)	1 (0)	5 (1)	1 (0)	326 (59)	552 (100)
18	Wearing Apparels	63 (25)	15 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	178 (70)	256 (100)
19	Leather Products	3 (15)	2 (10)	1 (5)	1 (5)	3 (15)	0 (0)	0 (0)	0 (0)	10 (50)	20 (100)
21	Paper & Paper Products	2 (17)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	10 (83)	12 (100)
23	Refined petroleum	0 (0)	5 (25)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	15 (75)	20 (100)
24	Chemicals & Chemical Pdts	36 (13)	34 (12)	3 (1)	7 (3)	1 (0)	1 (0)	3 (1)	1 (0)	194 (69)	280 (100)
25	Rubber & Plastic Products	37 (22)	31 (18)	0 (0)	8 (5)	1 (1)	0 (0)	1 (1)	0 (0)	94 (55)	172 (100)
26	Non-metallic mineral Products	49 (25)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	151 (76)	200 (100)
27	Basic Metals	29 (22)	4 (3)	10 (8)	0 (0)	21 (16)	19 (14)	1 (1)	0 (0)	48 (36)	132 (100)
28	Metal products	43 (15)	29 (10)	1 (0)	15 (5)	15 (5)	3 (1)	17 (6)	2 (1)	159 (56)	284 (100)
29	Machinery & Equipment	70 (10)	118 (17)	5 (1)	80 (12)	14 (2)	1 (0)	11 (2)	2 (0)	375 (55)	676 (100)
30	Office accounting & computing machinery	11 (23)	2 (4)	2 (4)	0 (0)	3 (6)	0 (0)	1 (2)	0 (0)	29 (60)	48 (100)
31	Electrical Machinery	57 (10)	100 (17)	2 (0)	89 (15)	21 (4)	5 (1)	1 (0)	3 (1)	322 (54)	600 (100)
32	Radio, TV,Communication Equip. & Appliances	42 (20)	20 (10)	1 (0)	6 (3)	14 (7)	7 (3)	4 (2)	1 (0)	113 (54)	208 (100)
33	Medical, Precision, Optical Instruments, Watches	36 (23)	1 (1)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	4 (3)	115 (74)	156 (100)
34	Motor Vehicles, Trailers & Semi-Trailers	160 (24)	69 (10)	2 (0)	6 (1)	76 (11)	9 (1)	4 (1)	1 (0)	353 (52)	680 (100)
35	Transport Equipments	2 (17)	2 (17)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	8 (67)	12 (100)
36	Furniture, Jewellery, sports goods, toys & stationery	10 (25)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	2 (5)	0 (0)	27 (68)	40 (100)
101	Total	869 (18)	585 (12)	36 (1)	224 (5)	176 (4)	49 (1)	73 (2)	16 (0)	2708 (57)	4736* (100)

* Figures in parenthesis indicate percentage of reporting units. # no. of total units is more than 1184 (see table 14b) due to multiple response.

Table 15c: Industrywise IT as an Enabler of Various Activities In All Units

2 digit Ind.	Industry Name	Computerised invoicing	Inventory mgmt	ERP	MIS	CAD	CAM	E-business	Other Reasons	No Response	Total
15	Food Products & Beverages	120 (22)	86 (16)	12 (2)	19 (4)	13 (2)	6 (1)	34 (6)	5 (1)	245 (45)	540 (100)
17	Textiles	187 (23)	124 (15)	3 (0)	1 (0)	30 (4)	6 (1)	14 (2)	3 (0)	436 (54)	804 (100)
18	Wearing Apparels	75 (23)	20 (6)	0 (0)	0 (0)	3 (1)	1 (0)	0 (0)	1 (0)	228 (70)	328 (100)
19	Leather Products	23 (21)	13 (12)	6 (6)	4 (4)	10 (9)	1 (1)	3 (3)	0 (0)	48 (44)	108 (100)
21	Paper & Paper Products	7 (22)	3 (9)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	21 (66)	32 (100)
23	Refined petroleum	5 (13)	10 (25)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	25 (63)	40 (100)
24	Chemicals & Chemical Pdt	57 (15)	40 (11)	3 (1)	9 (2)	9 (2)	4 (1)	6 (2)	1 (0)	243 (65)	372 (100)
25	Rubber & Plastic Products	47 (22)	39 (18)	1 (0)	12 (6)	3 (1)	1 (0)	3 (1)	0 (0)	110 (51)	216 (100)
26	Non-metallic mineral Products	62 (24)	2 (1)	0 (0)	0 (0)	2 (1)	0 (0)	1 (0)	0 (0)	189 (74)	256 (100)
27	Basic Metals	35 (21)	6 (4)	14 (8)	1 (1)	26 (15)	21 (13)	1 (1)	0 (0)	64 (38)	168 (100)
28	Metal products	66 (14)	40 (9)	5 (1)	35 (8)	44 (9)	12 (3)	19 (4)	3 (1)	240 (52)	464 (100)
29	Machinery & Equipment	102 (11)	147 (16)	13 (1)	90 (10)	32 (3)	6 (1)	18 (2)	6 (1)	502 (55)	916 (100)
30	Office accounting & computing machinery	12 (21)	4 (7)	2 (4)	2 (4)	5 (9)	0 (0)	1 (2)	0 (0)	30 (54)	56 (100)
31	Electrical Machinery	77 (10)	125 (17)	4 (1)	105 (14)	39 (5)	9 (1)	4 (1)	3 (0)	386 (51)	752 (100)
32	Radio, TV, Communication Equip & Appliances	55 (19)	30 (11)	4 (1)	8 (3)	22 (8)	9 (3)	5 (2)	2 (1)	149 (52)	284 (100)
33	Medical, Precision, Optical Instruments, Watches	43 (22)	2 (1)	1 (1)	1 (1)	3 (2)	0 (0)	0 (0)	5 (3)	141 (72)	196 (100)
34	Motor Vehicles, Trailers & Semi-Trailers	200 (24)	95 (11)	5 (1)	15 (2)	99 (12)	16 (2)	6 (1)	2 (0)	410 (48)	848 (100)
35	Transport Equipments	4 (20)	4 (20)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	12 (60)	20 (100)
36	Furniture, Jewellery, sports goods, toys & stationery	15 (23)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	2 (3)	1 (2)	44 (69)	64 (100)
101	Total	1192 (18)	790 (12)	73 (1)	303 (5)	342 (5)	92 (1)	117 (2)	32 (0)	3523 (55)	6464* (100)

* Figures in parenthesis indicate percentage of reporting units. # no. of total units is more than 1616 (see table 14c) due to multiple response.

Table 16a: Industrywise- Use of Intranet by Units Performing R&D

2 digit Ind.	Industry Name	No. of units using Intranet	No. of units not using Intranet	Total
15	Food Products & Beverages	19 (28)	48 (72)	67 (100)
17	Textiles	25 (24)	81 (76)	106 (100)
18	Wearing Apparels	4 (13)	26 (87)	30 (100)
19	Leather Products	19 (48)	21 (53)	40 (100)
21	Paper & Paper Products	0 (0)	10 (100)	10 (100)
23	Refined petroleum	0 (0)	10 (100)	10 (100)
24	Chemicals & Chemical Pdts	14 (44)	18 (56)	32 (100)
25	Rubber & Plastic Products	6 (20)	24 (80)	30 (100)
26	Non-metallic mineral Products	1 (5)	19 (95)	20 (100)
27	Basic Metals	6 (19)	26 (81)	32 (100)
28	Metal products	16 (28)	41 (72)	57 (100)
29	Machinery & Equipment	26 (28)	68 (72)	94 (100)
30	Office accounting & computing machinery	2 (100)	0 (0)	2 (100)
31	Electrical Machinery	29 (64)	16 (36)	45 (100)
32	Radio, TV,Communication Equip. & Appliances	7 (24)	22 (76)	29 (100)
33	Medical, Precision, Optical Instruments, Watches	1 (4)	23 (96)	24 (100)
34	Motor Vehicles,Trailers & Semi-Trailers	25 (50)	25 (50)	50 (100)
35	Transport Equipments	0 (0)	10 (100)	10 (100)
36	Furniture,Jewellery,sports goods,toys & stationery	0 (0)	10 (100)	10 (100)
101	Total	200 (29)	498 (71)	698 (100)

* Figures in parenthesis indicate percentage of reporting units.

Table 16b:Industrywise-Use of Intranet by Units Not Performing R&D

2 digit Ind.	Industry Name	No. of units using Intranet	No. of units not using Intranet	Total
15	Food Products & Beverages	19 (5)	344 (95)	363 (100)
17	Textiles	4 (1)	733 (99)	737 (100)
18	Wearing Apparels	2 (1)	267 (99)	269 (100)
19	Leather Products	4 (2)	242 (98)	246 (100)
21	Paper & Paper Products	0 (0)	92 (100)	92 (100)
23	Refined petroleum	0 (0)	97 (100)	97 (100)
24	Chemicals & Chemical Pdts	24 (16)	125 (84)	149 (100)
25	Rubber & Plastic Products	5 (3)	175 (97)	180 (100)
26	Non-metallic mineral Products	1 (1)	97 (99)	98 (100)
27	Basic Metals	25 (14)	156 (86)	181 (100)
28	Metal products	15 (3)	446 (97)	461 (100)
29	Machinery & Equipment	108 (18)	500 (82)	608 (100)
30	Office accounting & computing machinery	4 (17)	19 (83)	23 (100)
31	Electrical Machinery	122 (36)	221 (64)	343 (100)
32	Radio, TV,Communication Equip. & Appliances	29 (29)	70 (71)	99 (100)
33	Medical, Precision, Optical Instruments, Watches	0 (0)	164 (100)	164 (100)
34	Motor Vehicles,Trailers & Semi-Trailers	50 (14)	314 (86)	364 (100)
35	Transport Equipments	0 (0)	7 (100)	7 (100)
36	Furniture,Jewellery,sports goods,toys & stationery	0 (0)	169 (100)	169 (100)
101	Total	412 (9)	4238 (91)	4650 (100)

* Figures in parenthesis indicate percentage of reporting units.

Table 16c: Industrywise- Use of Intranet by all Units

2 digit Ind.	Industry Name	No. of units using Intranet		No. of units not using Intranet		Total	
15	Food Products & Beverages	38	(9)	392	(91)	430	(100)
17	Textiles	29	(3)	814	(97)	843	(100)
18	Wearing Apparels	6	(2)	293	(98)	299	(100)
19	Leather Products	23	(8)	263	(92)	286	(100)
21	Paper & Paper Products	0	(0)	102	(100)	102	(100)
23	Refined petroleum	0	(0)	107	(100)	107	(100)
24	Chemicals & Chemical Pds	38	(21)	143	(79)	181	(100)
25	Rubber & Plastic Products	11	(5)	199	(95)	210	(100)
26	Non-metallic mineral Products	2	(2)	116	(98)	118	(100)
27	Basic Metals	31	(15)	182	(85)	213	(100)
28	Metal products	31	(6)	487	(94)	518	(100)
29	Machinery & Equipment	134	(19)	568	(81)	702	(100)
30	Office accounting & computing machinery	6	(24)	19	(76)	25	(100)
31	Electrical Machinery	151	(39)	237	(61)	388	(100)
32	Radio, TV,Communication Equip. & Appliances	36	(28)	92	(72)	128	(100)
33	Medical, Precision, Optical Instruments, Watches	1	(1)	187	(99)	188	(100)
34	Motor Vehicles,Trailers & Semi-Trailers	75	(18)	339	(82)	414	(100)
35	Transport Equipments	0	(0)	17	(100)	17	(100)
36	Furniture,Jewellery,sports goods,toys & stationery	0	(0)	179	(100)	179	(100)
101	Total	612	(11)	4736	(89)	5348	(100)

* Figures in parenthesis indicate percentage of reporting units.

Table 17a: Industrywise- Purpose of Using Intranet by Units Performing R&D

2 digit Ind.	Industry Name	E-mail	Sharing documents/products	Product planning	Office communication	Inventory mgmt	developing own web page	No response	Total
15	Food Products & Beverages	17 (22)	2 (3)	2 (3)	9 (12)	3 (4)	0 (0)	43 (57)	76 (100)
17	Textiles	20 (20)	14 (14)	7 (7)	12 (12)	9 (9)	0 (0)	38 (38)	100 (100)
18	Wearing Apparels	2 (13)	1 (6)	0 (0)	4 (25)	1 (6)	0 (0)	8 (50)	16 (100)
19	Leather Products	18 (24)	7 (9)	10 (13)	13 (17)	7 (9)	3 (4)	18 (24)	76 (100)
24	Chemicals & Chemical Pds	12 (21)	6 (11)	2 (4)	9 (16)	1 (2)	0 (0)	26 (46)	56 (100)
25	Rubber & Plastic Products	4 (17)	4 (17)	2 (8)	4 (17)	2 (8)	1 (4)	7 (29)	24 (100)
26	Non-metallic mineral Products	1 (25)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (75)	4 (100)
27	Basic Metals	5 (21)	6 (25)	1 (4)	3 (13)	0 (0)	0 (0)	9 (38)	24 (100)
28	Metal products	10 (16)	9 (14)	8 (13)	9 (14)	3 (5)	2 (3)	23 (36)	64 (100)
29	Machinery & Equipment	10 (10)	12 (12)	12 (12)	19 (18)	13 (13)	1 (1)	37 (36)	104 (100)
30	Office accounting & computing machinery	2 (25)	1 (13)	2 (25)	1 (13)	1 (13)	1 (13)	0 (0)	8 (100)
31	Electrical Machinery	18 (16)	17 (15)	14 (12)	19 (16)	5 (4)	2 (2)	41 (35)	116 (100)
32	Radio, TV,Communication Equip. & Appliances	4 (14)	3 (11)	2 (7)	5 (18)	2 (7)	0 (0)	12 (43)	28 (100)
33	Medical, Precision, Optical Instruments, Watches	1 (25)	0 (0)	0 (0)	1 (25)	1 (25)	0 (0)	1 (25)	4 (100)
34	Motor Vehicles,Trailers & Semi-Trailers	23 (23)	13 (13)	8 (8)	11 (11)	5 (5)	1 (1)	39 (39)	100 (100)
101	Total	147 (18)	95 (12)	70 (9)	119 (15)	53 (7)	11 (1)	305 (38)	800[#] (100)

* Figures in parenthesis indicate percentage of reporting units. # no. of total units is more than 200 (see table 16a) due to multiple response.

Table 17b: Industrywise- Purpose of Using Intranet by Units Not Performing R&D

2 digit Ind.	Industry Name	E-mail	Sharing documents/products	Product planning	Office communication	Inventory mgmt	developing own web page	No response	Total
15	Food Products & Beverages	18 (24)	1 (1)	6 (8)	6 (8)	3 (4)	0 (0)	42 (55)	76 (100)
17	Textiles	3 (19)	4 (25)	1 (6)	0 (0)	0 (0)	0 (0)	8 (50)	16 (100)
18	Wearing Apparels	2 (25)	2 (25)	1 (13)	0 (0)	0 (0)	0 (0)	3 (38)	8 (100)
19	Leather Products	3 (19)	1 (6)	3 (19)	1 (6)	1 (6)	0 (0)	7 (44)	16 (100)
24	Chemicals & Chemical Pds	21 (22)	22 (23)	8 (8)	17 (18)	3 (3)	0 (0)	25 (26)	96 (100)
25	Rubber & Plastic Products	2 (10)	5 (25)	1 (5)	5 (25)	2 (10)	0 (0)	5 (25)	20 (100)
26	Non-metallic mineral Products	1 (25)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (75)	4 (100)
27	Basic Metals	24 (24)	15 (15)	5 (5)	3 (3)	0 (0)	0 (0)	53 (53)	100 (100)
28	Metal products	5 (8)	6 (10)	4 (7)	5 (8)	2 (3)	2 (3)	36 (60)	60 (100)
29	Machinery & Equipment	13 (3)	84 (19)	65 (15)	96 (22)	32 (7)	4 (1)	138 (32)	432 (100)
30	Office accounting & computing machinery	4 (25)	1 (6)	0 (0)	1 (6)	0 (0)	0 (0)	10 (63)	16 (100)
31	Electrical Machinery	31 (6)	94 (19)	86 (18)	100 (20)	57 (12)	3 (1)	117 (24)	488 (100)
32	Radio, TV,Communication Equip. & Appliances	25 (22)	18 (16)	6 (5)	19 (17)	0 (0)	0 (0)	47 (41)	115 (100)
34	Motor Vehicles,Trailers & Semi-Trailers	49 (25)	8 (4)	11 (6)	10 (5)	7 (4)	1 (1)	113 (57)	199 (100)
101	Total	201 (12)	261 (16)	197 (12)	263 (16)	107 (7)	10 (1)	607 (37)	1646[#] (100)

* Figures in parenthesis indicate percentage of reporting units. # no. of total units is more than 412 (see table 16b) due to multiple response.

Table 17c: Industrywise- Purpose of Using Intranet by all Units

2 digit Ind.	Industry Name	E-mail	Sharing documents/products	Product planning	Office communication	Inventory mgmt	developing own web page	No response	Total
15	Food Products & Beverages	35 (23)	3 (2)	8 (5)	15 (10)	6 (4)	0 (0)	85 (56)	152 (100)
17	Textiles	23 (20)	18 (16)	8 (7)	12 (10)	9 (8)	0 (0)	46 (40)	116 (100)
18	Wearing Apparels	4 (17)	3 (13)	1 (4)	4 (17)	1 (4)	0 (0)	11 (46)	24 (100)
19	Leather Products	21 (23)	8 (9)	13 (14)	14 (15)	8 (9)	3 (3)	25 (27)	92 (100)
24	Chemicals & Chemical Pds	33 (22)	28 (18)	10 (7)	26 (17)	4 (3)	0 (0)	51 (34)	152 (100)
25	Rubber & Plastic Products	6 (14)	9 (20)	3 (7)	9 (20)	4 (9)	1 (2)	12 (27)	44 (100)
26	Non-metallic mineral Products	2 (25)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	6 (75)	8 (100)
27	Basic Metals	29 (23)	21 (17)	6 (5)	6 (5)	0 (0)	0 (0)	62 (50)	124 (100)
28	Metal products	15 (12)	15 (12)	12 (10)	14 (11)	5 (4)	4 (3)	59 (48)	124 (100)
29	Machinery & Equipment	23 (4)	96 (18)	77 (14)	115 (21)	45 (8)	5 (1)	175 (33)	536 (100)
30	Office accounting & computing machinery	6 (25)	2 (8)	2 (8)	2 (8)	1 (4)	1 (4)	10 (42)	24 (100)
31	Electrical Machinery	49 (8)	111 (18)	100 (17)	119 (20)	62 (10)	5 (1)	158 (26)	604 (100)
32	Radio, TV,Communication Equip. & Appliances	29 (20)	21 (15)	8 (6)	24 (17)	2 (1)	0 (0)	59 (41)	143 (100)
33	Medical, Precision, Optical Instruments, Watches	1 (25)	0 (0)	0 (0)	1 (25)	1 (25)	0 (0)	1 (25)	4 (100)
34	Motor Vehicles,Trailers & Semi-Trailers	72 (24)	21 (7)	19 (6)	21 (7)	12 (4)	2 (1)	152 (51)	299 (100)
101	Total	348 (14)	356 (15)	267 (11)	382 (16)	160 (7)	21 (1)	912 (37)	2446# (100)

* Figures in parenthesis indicate percentage of reporting units. # no. of total units is more than 612 (see table 16c) due to multiple response.

2 digit Ind.	Industry Name	No. of units using Internet	No. of units not using Internet	Total
15	Food Products & Beverages	24 (36)	43 (64)	67 (100)
17	Textiles	58 (55)	48 (45)	106 (100)
18	Wearing Apparels	18 (60)	12 (40)	30 (100)
19	Leather Products	23 (58)	17 (43)	40 (100)
21	Paper & Paper Products	5 (50)	5 (50)	10 (100)
23	Refined petroleum	5 (50)	5 (50)	10 (100)
24	Chemicals & Chemical Pdts	27 (84)	5 (16)	32 (100)
25	Rubber & Plastic Products	15 (50)	15 (50)	30 (100)
26	Non-metallic mineral Products	6 (30)	14 (70)	20 (100)
27	Basic Metals	8 (25)	24 (75)	32 (100)
28	Metal products	39 (68)	18 (32)	57 (100)
29	Machinery & Equipment	31 (33)	63 (67)	94 (100)
30	Office accounting & computing machinery	2 (100)	0 (0)	2 (100)
31	Electrical Machinery	36 (80)	9 (20)	45 (100)
32	Radio, TV, Communication Equip. & Appliances	18 (62)	11 (38)	29 (100)
33	Medical, Precision, Optical Instruments, Watches	7 (29)	17 (71)	24 (100)
34	Motor Vehicles, Trailers & Semi-Trailers	34 (68)	16 (32)	50 (100)
35	Transport Equipments	0 (0)	10 (100)	10 (100)
36	Furniture, Jewellery, sports goods, toys & stationery	3 (30)	7 (70)	10 (100)
101	Total	359 (51)	339 (49)	698 (100)

* Figures in parenthesis indicate percentage of reporting units.

2 digit Ind.	Industry Name	No. of units using Internet	No. of units not using Internet	Total
15	Food Products & Beverages	32 (9)	331 (91)	363 (100)
17	Textiles	40 (5)	697 (95)	737 (100)
18	Wearing Apparels	66 (25)	203 (75)	269 (100)
19	Leather Products	24 (10)	222 (90)	246 (100)
21	Paper & Paper Products	5 (5)	87 (95)	92 (100)
23	Refined petroleum	6 (6)	91 (94)	97 (100)
24	Chemicals & Chemical Pdts	75 (50)	74 (50)	149 (100)
25	Rubber & Plastic Products	33 (18)	147 (82)	180 (100)
26	Non-metallic mineral Products	34 (35)	64 (65)	98 (100)
27	Basic Metals	20 (11)	161 (89)	181 (100)
28	Metal products	39 (8)	422 (92)	461 (100)
29	Machinery & Equipment	75 (12)	533 (88)	608 (100)
30	Office accounting & computing machinery	13 (57)	10 (43)	23 (100)
31	Electrical Machinery	117 (34)	226 (66)	343 (100)
32	Radio, TV, Communication Equip. & Appliances	54 (55)	45 (45)	99 (100)
33	Medical, Precision, Optical Instruments, Watches	3 (2)	161 (98)	164 (100)
34	Motor Vehicles, Trailers & Semi-Trailers	84 (23)	280 (77)	364 (100)
35	Transport Equipments	3 (43)	4 (57)	7 (100)
36	Furniture, Jewellery, sports goods, toys & stationery	2 (1)	167 (99)	169 (100)
101	Total	725 (16)	3925 (84)	4650 (100)

* Figures in parenthesis indicate percentage of reporting units.

Table 18c: Industrywise- Use of Internet by All Units						
2 digit Ind.	Industry Name	No. of units using Internet		No. of units not using Internet		Total
15	Food Products & Beverages	56	(13)	374	(87)	430 (100)
17	Textiles	98	(12)	745	(88)	843 (100)
18	Wearing Apparels	84	(28)	215	(72)	299 (100)
19	Leather Products	47	(16)	239	(84)	286 (100)
21	Paper & Paper Products	10	(10)	92	(90)	102 (100)
23	Refined petroleum	11	(10)	96	(90)	107 (100)
24	Chemicals & Chemical Pdt	102	(56)	79	(44)	181 (100)
25	Rubber & Plastic Products	48	(23)	162	(77)	210 (100)
26	Non-metallic mineral Products	40	(34)	78	(66)	118 (100)
27	Basic Metals	28	(13)	185	(87)	213 (100)
28	Metal products	78	(15)	440	(85)	518 (100)
29	Machinery & Equipment	106	(15)	596	(85)	702 (100)
30	Office accounting & computing machinery	15	(60)	10	(40)	25 (100)
31	Electrical Machinery	153	(39)	235	(61)	388 (100)
32	Radio, TV, Communication Equip. & Appliances	72	(56)	56	(44)	128 (100)
33	Medical, Precision, Optical Instruments, Watches	10	(5)	178	(95)	188 (100)
34	Motor Vehicles, Trailers & Semi-Trailers	118	(29)	296	(71)	414 (100)
35	Transport Equipments	3	(18)	14	(82)	17 (100)
36	Furniture, Jewellery, sports goods, toys & stationery	5	(3)	174	(97)	179 (100)
101	Total	1084	(20)	4264	(80)	5348 (100)

* Figures in parenthesis indicate percentage of reporting units.

Table 19a: Industrywise- Activity-wise Use of Internet by Units Performing R&D

2 digit Ind.	Industry Name	Knowledge search on WWW	Business Intelligence	Knowledge exchange with suppliers & customers	Global competition	E-mail with customers	Creating web page	No response	Total
15	Food Products & Beverages	17 (18)	7 (7)	12 (13)	3 (3)	20 (21)	1 (1)	35 (37)	95 (100)
17	Textiles	53 (23)	30 (13)	30 (13)	14 (6)	36 (16)	2 (1)	67 (29)	232 (100)
18	Wearing Apparels	10 (14)	6 (8)	12 (17)	0 (0)	15 (21)	1 (1)	28 (39)	72 (100)
19	Leather Products	16 (17)	12 (13)	15 (16)	4 (4)	18 (20)	3 (3)	24 (26)	92 (100)
21	Paper & Paper Products	5 (25)	0 (0)	2 (10)	0 (0)	3 (15)	1 (5)	9 (45)	20 (100)
23	Refined petroleum	5 (25)	0 (0)	5 (25)	0 (0)	5 (25)	0 (0)	5 (25)	20 (100)
24	Chemicals & Chemical Pdt	21 (19)	7 (6)	14 (13)	1 (1)	25 (23)	1 (1)	39 (36)	108 (100)
25	Rubber & Plastic Products	11 (18)	4 (7)	7 (12)	1 (2)	9 (15)	2 (3)	26 (43)	60 (100)
26	Non-metallic mineral Products	0 (0)	5 (21)	5 (21)	0 (0)	2 (8)	0 (0)	12 (50)	24 (100)
27	Basic Metals	4 (13)	2 (6)	5 (16)	1 (3)	5 (16)	0 (0)	15 (47)	32 (100)
28	Metal products	15 (10)	12 (8)	23 (15)	4 (3)	23 (15)	4 (3)	72 (47)	153 (100)
29	Machinery & Equipment	12 (10)	20 (16)	19 (15)	4 (3)	15 (12)	2 (2)	52 (42)	124 (100)
30	Office accounting & computing machinery	2 (25)	1 (13)	2 (25)	1 (13)	1 (13)	1 (13)	0 (0)	8 (100)
31	Electrical Machinery	22 (15)	18 (13)	21 (15)	3 (2)	18 (13)	3 (2)	59 (41)	144 (100)
32	Radio, TV,Communication Equip. & Appliances	16 (22)	9 (13)	10 (14)	1 (1)	12 (17)	3 (4)	21 (29)	72 (100)
33	Medical, Precision, Optical Instruments, Watches	4 (15)	1 (4)	2 (7)	0 (0)	3 (11)	1 (4)	16 (59)	27 (100)
34	Motor Vehicles,Trailers & Semi-Trailers	30 (22)	8 (6)	14 (10)	2 (1)	29 (21)	2 (1)	51 (38)	136 (100)
36	Furniture,Jewellery,sports goods,toys & stationery	1 (8)	3 (25)	0 (0)	0 (0)	0 (0)	0 (0)	8 (67)	12 (100)
101	Total	244 (17)	145 (10)	198 (14)	39 (3)	239 (17)	27 (2)	539 (38)	1431* (100)

* Figures in parenthesis indicate percentage of reporting units. # no. of total units is more than 359 (see table 18a) due to multiple response.

Table 19b: Industrywise- Activity-wise Use of Internet by Units Not Performing R&D

2 digit Ind.	Industry name	Knowledge search on WWW	Business Intelligence	Knowledge exchange with suppliers & customers	Global competition	E-mail with customers	Creating web page	No response	Total
15	Food Products & Beverages	29 (23)	18 (14)	17 (13)	4 (3)	17 (13)	4 (3)	39 (30)	128 (100)
17	Textiles	33 (21)	15 (9)	19 (12)	8 (5)	25 (16)	0 (0)	59 (37)	159 (100)
18	Wearing Apparels	24 (9)	8 (3)	31 (12)	0 (0)	62 (23)	2 (1)	137 (52)	264 (100)
19	Leather Products	3 (3)	4 (4)	21 (22)	0 (0)	4 (4)	0 (0)	64 (67)	96 (100)
21	Paper & Paper Products	1 (5)	0 (0)	4 (20)	0 (0)	1 (5)	0 (0)	14 (70)	20 (100)
23	Refined petroleum	6 (25)	0 (0)	0 (0)	0 (0)	5 (21)	0 (0)	13 (54)	24 (100)
24	Chemicals & Chemical Pdt	47 (16)	17 (6)	28 (9)	2 (1)	67 (22)	2 (1)	135 (45)	298 (100)
25	Rubber & Plastic Products	32 (24)	10 (8)	26 (20)	0 (0)	28 (21)	2 (2)	34 (26)	132 (100)
26	Non-metallic mineral Products	0 (0)	33 (24)	33 (24)	0 (0)	1 (1)	0 (0)	69 (51)	136 (100)
27	Basic Metals	1 (1)	7 (9)	17 (21)	0 (0)	4 (5)	0 (0)	51 (64)	80 (100)
28	Metal products	19 (12)	19 (12)	21 (13)	2 (1)	22 (14)	9 (6)	64 (41)	156 (100)
29	Machinery & Equipment	22 (7)	44 (15)	37 (12)	1 (0)	29 (10)	3 (1)	163 (55)	299 (100)
30	Office accounting & computing machinery	10 (20)	3 (6)	7 (14)	0 (0)	9 (18)	0 (0)	22 (43)	51 (100)
31	Electrical Machinery	45 (10)	70 (15)	89 (19)	6 (1)	41 (9)	3 (1)	213 (46)	467 (100)
32	Radio, TV,Communication Equip. & Appliances	29 (13)	16 (7)	29 (13)	5 (2)	40 (19)	4 (2)	92 (43)	215 (100)
33	Medical, Precision, Optical Instruments, Watches	2 (17)	3 (25)	3 (25)	0 (0)	2 (17)	0 (0)	2 (17)	12 (100)
34	Motor Vehicles,Trailers & Semi-Trailers	74 (22)	11 (3)	44 (13)	1 (0)	55 (16)	2 (1)	149 (44)	336 (100)
35	Transport Equipments	3 (25)	3 (25)	2 (17)	3 (25)	1 (8)	0 (0)	0 (0)	12 (100)
36	Furniture, jewellery, sports goods, toys & stationery	0 (0)	1 (13)	0 (0)	0 (0)	1 (13)	0 (0)	6 (75)	8 (100)
101	Total	380 (13)	282 (10)	428 (15)	32 (1)	414 (14)	31 (1)	1326 (46)	2893* (100)

* Figures in parenthesis indicate percentage of reporting units. # no. of total units is more than 725 (see table 18b) due to multiple response.

Table 19c: Industrywise- Activity-wise Use of Internet by All Units

2 digit Ind.	Industry name	Knowledge search on WWW	Business Intelligence	Knowledge exchange with suppliers & customers	Global competition	E-mail with customers	Creating web page	No response	Total
15	Food Products & Beverages	46 (21)	25 (11)	29 (13)	7 (3)	37 (17)	5 (2)	74 (33)	223 (100)
17	Textiles	86 (22)	45 (12)	49 (13)	22 (6)	61 (16)	2 (1)	126 (32)	391 (100)
18	Wearing Apparels	34 (10)	14 (4)	43 (13)	0 (0)	77 (23)	3 (1)	165 (49)	336 (100)
19	Leather Products	19 (10)	16 (9)	36 (19)	4 (2)	22 (12)	3 (2)	88 (47)	188 (100)
21	Paper & Paper Products	6 (15)	0 (0)	6 (15)	0 (0)	4 (10)	1 (3)	23 (58)	40 (100)
23	Refined petroleum	11 (25)	0 (0)	5 (11)	0 (0)	10 (23)	0 (0)	18 (41)	44 (100)
24	Chemicals & Chemical Pds	68 (17)	24 (6)	42 (10)	3 (1)	92 (23)	3 (1)	174 (43)	406 (100)
25	Rubber & Plastic Products	43 (22)	14 (7)	33 (17)	1 (1)	37 (19)	4 (2)	60 (31)	192 (100)
26	Non-metallic mineral Products	0 (0)	38 (24)	38 (24)	0 (0)	3 (2)	0 (0)	81 (51)	160 (100)
27	Basic Metals	5 (4)	9 (8)	22 (20)	1 (1)	9 (8)	0 (0)	66 (59)	112 (100)
28	Metal products	34 (11)	31 (10)	44 (14)	6 (2)	45 (15)	13 (4)	136 (44)	309 (100)
29	Machinery & Equipment	34 (8)	64 (15)	56 (13)	5 (1)	44 (10)	5 (1)	215 (51)	423 (100)
30	Office accounting & computing machinery	12 (20)	4 (7)	9 (15)	1 (2)	10 (17)	1 (2)	22 (37)	59 (100)
31	Electrical Machinery	67 (11)	88 (14)	110 (18)	9 (1)	59 (10)	6 (1)	272 (45)	611 (100)
32	Radio, TV, Communication Equip. & Appliances	45 (16)	25 (9)	39 (14)	6 (2)	52 (18)	7 (2)	113 (39)	287 (100)
33	Medical, Precision, Optical Instruments, Watches	6 (15)	4 (10)	5 (13)	0 (0)	5 (13)	1 (3)	18 (46)	39 (100)
34	Motor Vehicles, Trailers & Semi-Trailers	104 (22)	19 (4)	58 (12)	3 (1)	84 (18)	4 (1)	200 (42)	472 (100)
35	Transport Equipments	3 (25)	3 (25)	2 (17)	3 (25)	1 (8)	0 (0)	0 (0)	12 (100)
36	Furniture, jewellery, sports goods, toys & stationery	1 (5)	4 (20)	0 (0)	0 (0)	1 (5)	0 (0)	14 (70)	20 (100)
101	Total	624 (14)	427 (10)	626 (14)	71 (2)	653 (15)	58 (1)	1865 (43)	4324[*] (100)

* Figures in parenthesis indicate percentage of reporting units. # no. of total units is more than 1084 (see table 18c) due to multiple response.

2 digit Ind.	Industry name	Aware of WTO	Unaware of WTO	Total
15	Food Products & Beverages	56 (84)	11 (16)	67 (100)
17	Textiles	53 (50)	53 (50)	106 (100)
18	Wearing Apparels	18 (60)	12 (40)	30 (100)
19	Leather Products	22 (55)	18 (45)	40 (100)
21	Paper & Paper Products	1 (10)	9 (90)	10 (100)
23	Refined petroleum	6 (60)	4 (40)	10 (100)
24	Chemicals & Chemical Pdt	20 (63)	12 (38)	32 (100)
25	Rubber & Plastic Products	12 (40)	18 (60)	30 (100)
26	Non-metallic mineral Products	13 (65)	7 (35)	20 (100)
27	Basic Metals	12 (38)	20 (63)	32 (100)
28	Metal products	41 (72)	16 (28)	57 (100)
29	Machinery & Equipment	49 (52)	45 (48)	94 (100)
30	Office accounting & computing machinery	1 (50)	1 (50)	2 (100)
31	Electrical Machinery	35 (78)	10 (22)	45 (100)
32	Radio, TV,Communication Equip. & Appliances	18 (62)	11 (38)	29 (100)
33	Medical, Precision, Optical Instruments, Watches	17 (71)	7 (29)	24 (100)
34	Motor Vehicles,Trailers & Semi-Trailers	27 (54)	23 (46)	50 (100)
35	Transport Equipments	0 (0)	10 (100)	10 (100)
36	Furniture,Jewellery,sports goods,toys & stationery	7 (70)	3 (30)	10 (100)
101	Total	408 (58)	290 (42)	698 (100)

* Figures in parenthesis indicate percentage of reporting units.

2 digit Ind.	Industry name	Aware of WTO	Unaware of WTO	Total
15	Food Products & Beverages	161 (44)	202 (56)	363 (100)
17	Textiles	115 (16)	622 (84)	737 (100)
18	Wearing Apparels	74 (28)	195 (72)	269 (100)
19	Leather Products	49 (20)	197 (80)	246 (100)
21	Paper & Paper Products	0 (0)	92 (100)	92 (100)
23	Refined petroleum	4 (4)	93 (96)	97 (100)
24	Chemicals & Chemical Pdt	35 (23)	114 (77)	149 (100)
25	Rubber & Plastic Products	7 (4)	173 (96)	180 (100)
26	Non-metallic mineral Products	57 (58)	41 (42)	98 (100)
27	Basic Metals	70 (39)	111 (61)	181 (100)
28	Metal products	108 (23)	353 (77)	461 (100)
29	Machinery & Equipment	245 (40)	363 (60)	608 (100)
30	Office accounting & computing machinery	3 (13)	20 (87)	23 (100)
31	Electrical Machinery	153 (45)	190 (55)	343 (100)
32	Radio, TV,Communication Equip. & Appliances	31 (31)	68 (69)	99 (100)
33	Medical, Precision, Optical Instruments, Watches	51 (31)	113 (69)	164 (100)
34	Motor Vehicles,Trailers & Semi-Trailers	123 (34)	241 (66)	364 (100)
35	Transport Equipments	0 (0)	7 (100)	7 (100)
36	Furniture,Jewellery,sports goods,toys & stationery	7 (4)	162 (96)	169 (100)
101	Total	1293 (28)	3357 (72)	4650 (100)

* Figures in parenthesis indicate percentage of reporting units.

Table 20c: Industrywise- Awareness of WTO by All Units						
2 digit Ind.	Industry name	Aware of WTO		Unaware of WTO		Total
15	Food Products & Beverages	217	(50)	213	(50)	430 (100)
17	Textiles	168	(20)	675	(80)	843 (100)
18	Wearing Apparels	92	(31)	207	(69)	299 (100)
19	Leather Products	71	(25)	215	(75)	286 (100)
21	Paper & Paper Products	1	(1)	101	(99)	102 (100)
23	Refined petroleum	10	(9)	97	(91)	107 (100)
24	Chemicals & Chemical Pdts	55	(30)	126	(70)	181 (100)
25	Rubber & Plastic Products	19	(9)	191	(91)	210 (100)
26	Non-metallic mineral Products	70	(59)	48	(41)	118 (100)
27	Basic Metals	82	(38)	131	(62)	213 (100)
28	Metal products	149	(29)	369	(71)	518 (100)
29	Machinery & Equipment	294	(42)	408	(58)	702 (100)
30	Office accounting & computing machinery	4	(16)	21	(84)	25 (100)
31	Electrical Machinery	188	(48)	200	(52)	388 (100)
32	Radio, TV, Communication Equip. & Appliances	49	(38)	79	(62)	128 (100)
33	Medical, Precision, Optical Instruments, Watches	68	(36)	120	(64)	188 (100)
34	Motor Vehicles, Trailers & Semi-Trailers	150	(36)	264	(64)	414 (100)
35	Transport Equipments	0	(0)	17	(100)	17 (100)
36	Furniture, Jewellery, sports goods, toys & stationery	14	(8)	165	(92)	179 (100)
101	Total	1701	(32)	3647	(68)	5348 (100)

* Figures in parenthesis indicate percentage of reporting units.

Table 21a: Industrywise- Reasons for Not Having Separate R&D Departments of Units Performing R&D

2 digit Ind.	Industry Name	No need was felt	No competi- tion	Financial constraint	Lack of infrastruc- ture	Lack of informa- tion	Buy it from outside agencies	Lack of knowledge about R&D	Total
15	Food Products & Beverages	38 (38)	16 (16)	2 (2)	14 (14)	8 (8)	13 (13)	9 (9)	100 (100)
17	Textiles	78 (44)	33 (19)	1 (1)	29 (16)	14 (8)	12 (7)	11 (6)	178 (100)
18	Wearing Apparels	17 (46)	7 (19)	0 (0)	5 (14)	3 (8)	5 (14)	0 (0)	37 (100)
19	Leather Products	24 (37)	13 (20)	0 (0)	11 (17)	4 (6)	11 (17)	2 (3)	65 (100)
21	Paper & Paper Products	8 (50)	7 (44)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	16 (100)
23	Refined petroleum	10 (40)	1 (4)	0 (0)	6 (24)	5 (20)	3 (12)	0 (0)	25 (100)
24	Chemicals & Chemical Pdt	15 (33)	4 (9)	0 (0)	11 (24)	11 (24)	5 (11)	0 (0)	46 (100)
25	Rubber & Plastic Products	20 (45)	10 (23)	0 (0)	9 (20)	3 (7)	2 (5)	0 (0)	44 (100)
26	Non-metallic mineral Products	14 (41)	3 (9)	0 (0)	2 (6)	3 (9)	12 (35)	0 (0)	34 (100)
27	Basic Metals	28 (44)	15 (23)	0 (0)	4 (6)	2 (3)	13 (20)	2 (3)	64 (100)
28	Metal products	39 (52)	11 (15)	1 (1)	10 (13)	7 (9)	5 (7)	2 (3)	75 (100)
29	Machinery & Equipment	61 (37)	30 (18)	1 (1)	35 (21)	13 (8)	23 (14)	4 (2)	167 (100)
31	Electrical Machinery	21 (43)	8 (16)	3 (6)	8 (16)	4 (8)	4 (8)	1 (2)	49 (100)
32	Radio, TV, Communication Equip. & Appliances	18 (36)	9 (18)	0 (0)	13 (26)	7 (14)	3 (6)	0 (0)	50 (100)
33	Medical, Precision, Optical Instruments, Watches	7 (54)	1 (8)	0 (0)	3 (23)	0 (0)	1 (8)	1 (8)	13 (100)
34	Motor Vehicles, Trailers & Semi-Trailers	26 (46)	15 (27)	0 (0)	8 (14)	3 (5)	4 (7)	0 (0)	56 (100)
35	Transport Equipments	9 (35)	6 (23)	0 (0)	8 (31)	3 (12)	0 (0)	0 (0)	26 (100)
36	Furniture, Jewellery, sports goods, toys & stationery	10 (48)	5 (24)	0 (0)	0 (0)	1 (5)	5 (24)	0 (0)	21 (100)
101	Total	443 (42)	194 (18)	8 (1)	176 (17)	92 (9)	121 (11)	32 (3)	1066^a (100)

^a Figures in parenthesis indicate percentage of reporting units. # no. of total units is more than 698 (table 20a) due to multiple response.

Table 21b: Industrywise- Reasons for Not Having Separate R&D Departments for Units Not Performing R&D

2 digit Ind.	Industry Name	No need was felt	No competi- tion	Financial constraint	Lack of infrastruc- ture	Lack of informa- tion	Buy it from outside agencies	Lack of knowledge about R&D	Total
15	Food Products & Beverages	354 (42)	171 (20)	18 (2)	117 (14)	83 (10)	8 (1)	89 (11)	840 (100)
17	Textiles	736 (38)	474 (25)	43 (2)	292 (15)	179 (9)	6 (0)	198 (10)	1928 (100)
18	Wearing Apparels	268 (44)	83 (14)	0 (0)	125 (21)	25 (4)	35 (6)	71 (12)	607 (100)
19	Leather Products	242 (43)	112 (20)	7 (1)	104 (18)	54 (10)	10 (2)	35 (6)	564 (100)
21	Paper & Paper Products	92 (45)	37 (18)	0 (0)	1 (0)	11 (5)	0 (0)	63 (31)	204 (100)
23	Refined petroleum	97 (45)	33 (15)	0 (0)	83 (39)	2 (1)	0 (0)	0 (0)	215 (100)
24	Chemicals & Chemical Pdt	149 (43)	42 (12)	3 (1)	96 (28)	46 (13)	11 (3)	1 (0)	348 (100)
25	Rubber & Plastic Products	180 (40)	88 (19)	0 (0)	140 (31)	12 (3)	7 (2)	28 (6)	455 (100)
26	Non-metallic mineral Products	97 (45)	8 (4)	0 (0)	87 (41)	19 (9)	2 (1)	1 (0)	214 (100)
27	Basic Metals	181 (42)	102 (24)	3 (1)	61 (14)	62 (14)	5 (1)	14 (3)	428 (100)
28	Metal products	459 (36)	236 (19)	15 (1)	259 (21)	189 (15)	16 (1)	87 (7)	1261 (100)
29	Machinery & Equipment	606 (43)	252 (18)	10 (1)	276 (20)	67 (5)	18 (1)	181 (13)	1410 (100)
30	Office accounting & computing machinery	22 (45)	4 (8)	0 (0)	19 (39)	1 (2)	2 (4)	1 (2)	49 (100)
31	Electrical Machinery	335 (40)	83 (10)	13 (2)	224 (27)	64 (8)	20 (2)	101 (12)	840 (100)
32	Radio, TV, Communication Equip. & Appliances	95 (38)	47 (19)	1 (0)	63 (25)	35 (14)	4 (2)	4 (2)	249 (100)
33	Medical, Precision, Optical Instruments, Watches	163 (44)	31 (8)	1 (0)	136 (37)	7 (2)	1 (0)	32 (9)	371 (100)
34	Motor Vehicles, Trailers & Semi-Trailers	362 (43)	142 (17)	7 (1)	149 (18)	125 (15)	30 (4)	32 (4)	847 (100)
35	Transport Equipments	7 (29)	5 (21)	2 (8)	6 (25)	3 (13)	0 (0)	1 (4)	24 (100)
36	Furniture, Jewellery, sports goods, toys & stationery	169 (50)	127 (37)	0 (0)	15 (4)	27 (8)	0 (0)	2 (1)	340 (100)
101	Total	4614 (41)	2077 (19)	123 (1)	2253 (20)	1011 (9)	175 (2)	941 (8)	11194^a (100)

^a Figures in parenthesis indicate percentage of reporting units. # no. of total units is more than 4650 (table 20b) due to multiple response.

Table 21c: Industrywise- Reasons for Not Having Separate R&D Departments for All Units

2 digit Ind.	Industry Name	No need was felt	No competi- tion	Financial constraint	Lack of infrastruc- ture	Lack of informa- tion	Buy it from outside agencies	Lack of knowledge about R&D	Total
15	Food Products & Beverages	392 (42)	187 (20)	20 (2)	131 (14)	91 (10)	21 (2)	98 (10)	940 (100)
17	Textiles	814 (39)	507 (24)	44 (2)	321 (15)	193 (9)	18 (1)	209 (10)	2106 (100)
18	Wearing Apparels	285 (44)	90 (14)	0 (0)	130 (20)	28 (4)	40 (6)	71 (11)	644 (100)
19	Leather Products	266 (42)	125 (20)	7 (1)	115 (18)	58 (9)	21 (3)	37 (6)	629 (100)
21	Paper & Paper Products	100 (45)	44 (20)	0 (0)	1 (0)	12 (5)	0 (0)	63 (29)	220 (100)
23	Refined petroleum	107 (45)	34 (14)	0 (0)	89 (37)	7 (3)	3 (1)	0 (0)	240 (100)
24	Chemicals & Chemical Pds	164 (42)	46 (12)	3 (1)	107 (27)	57 (14)	16 (4)	1 (0)	394 (100)
25	Rubber & Plastic Products	200 (40)	98 (20)	0 (0)	149 (30)	15 (3)	9 (2)	28 (6)	499 (100)
26	Non-metallic mineral Products	111 (45)	11 (4)	0 (0)	89 (36)	22 (9)	14 (6)	1 (0)	248 (100)
27	Basic Metals	209 (42)	117 (24)	3 (1)	65 (13)	64 (13)	18 (4)	16 (3)	492 (100)
28	Metal products	498 (37)	247 (18)	16 (1)	269 (20)	196 (15)	21 (2)	89 (7)	1336 (100)
29	Machinery & Equipment	667 (42)	282 (18)	11 (1)	311 (20)	80 (5)	41 (3)	185 (12)	1577 (100)
30	Office accounting & computing machinery	22 (45)	4 (8)	0 (0)	19 (39)	1 (2)	2 (4)	1 (2)	49 (100)
31	Electrical Machinery	356 (40)	91 (10)	16 (2)	232 (26)	68 (8)	24 (3)	102 (11)	889 (100)
32	Radio, TV, Communication Equip. & Appliances	113 (38)	56 (19)	1 (0)	76 (25)	42 (14)	7 (2)	4 (1)	299 (100)
33	Medical, Precision, Optical Instruments, Watches	170 (44)	32 (8)	1 (0)	139 (36)	7 (2)	2 (1)	33 (9)	384 (100)
34	Motor Vehicles, Trailers & Semi-Trailers	388 (43)	157 (17)	7 (1)	157 (17)	128 (14)	34 (4)	32 (4)	903 (100)
35	Transport Equipments	16 (32)	11 (22)	2 (4)	14 (28)	6 (12)	0 (0)	1 (2)	50 (100)
36	Furniture, Jewellery, sports goods, toys & stationery	179 (50)	132 (37)	0 (0)	15 (4)	28 (8)	5 (1)	2 (1)	361 (100)
101	Total	5057 (41)	2271 (19)	131 (1)	2429 (20)	1103 (9)	296 (2)	973 (8)	12260[#] (100)

* Figures in parenthesis indicate percentage of reporting units. # no. of total units is more than 5348 (table 20c) due to multiple response.

Annex (Questionnaire II)

Refers to the Target Questionnaire administered to all units performing R&D.

- Data relating to Units performing R&D

Note:

1. Wherever the data exceeds the total number of units it indicates the cases with multiple answers.
2. Wherever the data is less than the total number of units it indicates that non-responses cases are not included.

Table 1: Industrywise- Key Factors involved in the Decision Making of Undertaking Innovation

2 digit ind	Industry name	To increase market share by reducing cost of the product	To retain market share even while increasing price of the product	Technology change	Global competition	Domestic competition	Policy changes/ Liberalization	Consumer preference	Environment protection and safety	High cost of technology purchased	To improve quality	Pressure from collaborating buyers	Pressure from collaborating suppliers	Total
15	Food Products & Beverages	39 (13)	20 (7)	25 (8)	12 (4)	42 (14)	9 (3)	53 (18)	10 (3)	4 (1)	61 (21)	15 (5)	5 (2)	215 (100)
17	Textiles	46 (10)	13 (3)	32 (7)	31 (7)	66 (15)	20 (5)	76 (17)	5 (1)	10 (2)	99 (23)	34 (8)	7 (2)	119 (100)
18	Wearing Apparel	16 (12)	1 (1)	8 (6)	16 (12)	12 (9)	10 (7)	25 (18)	0 (0)	10 (7)	28 (21)	10 (7)	0 (0)	118 (100)
19	Leather Products	16 (9)	8 (5)	11 (6)	14 (8)	27 (16)	5 (3)	30 (17)	13 (7)	4 (2)	36 (21)	8 (5)	2 (1)	111 (100)
21	Paper & Paper Products	9 (16)	0 (0)	1 (2)	2 (4)	2 (4)	2 (4)	5 (9)	1 (2)	5 (9)	10 (18)	10 (18)	8 (15)	100 (100)
23	Refined petroleum	10 (18)	9 (16)	0 (0)	1 (2)	9 (16)	0 (0)	9 (16)	0 (0)	1 (2)	10 (18)	8 (14)	0 (0)	117 (100)
24	Chemicals & Chemical Pds	21 (12)	17 (10)	14 (8)	13 (8)	28 (16)	5 (3)	22 (13)	8 (5)	3 (2)	29 (17)	9 (5)	1 (1)	113 (100)
25	Rubber & Plastic Products	24 (16)	4 (3)	10 (6)	10 (6)	25 (16)	8 (5)	18 (12)	7 (5)	11 (7)	29 (19)	1 (1)	7 (5)	114 (100)
26	Non-metallic mineral Products	4 (6)	4 (6)	1 (1)	7 (10)	1 (16)	0 (0)	15 (22)	7 (10)	0 (0)	19 (26)	0 (0)	0 (0)	113 (100)
27	Basic Metals	10 (8)	4 (3)	16 (13)	0 (0)	26 (20)	11 (9)	14 (11)	11 (9)	1 (1)	32 (25)	2 (2)	0 (0)	117 (100)
28	Metal products	26 (12)	5 (2)	29 (13)	14 (6)	29 (13)	8 (4)	29 (13)	9 (4)	5 (2)	46 (21)	16 (7)	3 (1)	119 (100)
29	Machinery & Equipment	52 (12)	25 (6)	55 (13)	24 (5)	68 (16)	9 (2)	73 (17)	16 (4)	14 (3)	84 (19)	15 (3)	3 (1)	118 (100)
30	Office accounting & computing machinery	1 (11)	0 (0)	1 (11)	1 (11)	2 (22)	0 (0)	2 (22)	1 (11)	0 (0)	1 (11)	0 (0)	0 (0)	118 (100)
31	Electrical Machinery	24 (10)	20 (8)	28 (12)	20 (8)	29 (12)	12 (5)	30 (13)	19 (8)	11 (5)	40 (17)	5 (2)	0 (0)	110 (100)
32	Radio, TV, Communication Equip. & Appliances	20 (15)	3 (2)	9 (7)	15 (12)	17 (13)	2 (2)	21 (16)	5 (4)	10 (8)	25 (19)	3 (2)	0 (0)	130 (100)
33	Medical, Precision, Optical Instruments, Watches	4 (5)	4 (5)	7 (9)	6 (7)	5 (6)	3 (4)	18 (22)	1 (1)	2 (2)	23 (28)	6 (7)	3 (4)	112 (100)
34	Motor Vehicles, Trailers & Semi-Trailers	40 (16)	6 (2)	29 (12)	21 (8)	35 (14)	9 (4)	35 (14)	13 (5)	7 (3)	47 (19)	8 (3)	0 (0)	110 (100)
35	Transport Equipments	8 (14)	0 (0)	9 (16)	8 (14)	10 (18)	6 (11)	6 (11)	4 (7)	1 (2)	3 (5)	1 (2)	1 (2)	117 (100)
36	Furniture, Jewellery, sports goods, toys & stationery	7 (18)	0 (0)	6 (15)	3 (8)	6 (15)	1 (3)	6 (15)	1 (3)	0 (0)	9 (23)	0 (0)	0 (0)	119 (100)
101	Total	377 (12)	143 (5)	291 (9)	218 (7)	449 (14)	120 (4)	487 (16)	131 (4)	99 (3)	631 (20)	151 (5)	40 (1)	1117 (100)

*Figures in parenthesis indicate percentage of reporting units. # Number of total R&D units exceeds 698 due to multiple response

Table 2a: Industrywise- Internal Sources of Know-How Leading to Innovation

2 digit Ind	Industry Name	In-house R&D department	Experienced workers doing innovation, without R&D department	Journal - Technical/scientific	Subsidiaries	Total
15	Food Products & Beverages	20 (26)	39 (51)	14 (18)	4 (5)	77 (100)
17	Textiles	20 (18)	79 (69)	15 (13)	0 (0)	114 (100)
18	Wearing Apparels	6 (15)	25 (61)	10 (24)	0 (0)	41 (100)
19	Leather Products	12 (22)	30 (55)	13 (24)	0 (0)	55 (100)
21	Paper & Paper Products	5 (50)	5 (50)	0 (0)	0 (0)	10 (100)
23	Refined petroleum	0 (0)	10 (56)	8 (44)	0 (0)	18 (100)
24	Chemicals & Chemical Pdts	15 (27)	20 (36)	21 (38)	0 (0)	56 (100)
25	Rubber & Plastic Products	5 (14)	22 (63)	7 (20)	1 (3)	35 (100)
26	Non-metallic mineral Products	10 (67)	3 (20)	2 (13)	0 (0)	15 (100)
27	Basic Metals	2 (5)	32 (73)	10 (23)	0 (0)	44 (100)
28	Metal products	8 (12)	36 (55)	20 (31)	1 (2)	65 (100)
29	Machinery & Equipment	25 (28)	43 (48)	21 (23)	1 (1)	90 (100)
30	Office accounting & computing machinery	2 (67)	0 (0)	1 (33)	0 (0)	3 (100)
31	Electrical Machinery	24 (44)	10 (18)	21 (38)	0 (0)	55 (100)
32	Radio, TV,Communication Equip. & Appliances	11 (27)	14 (34)	16 (39)	0 (0)	41 (100)
33	Medical, Precision, Optical Instruments, Watches	6 (24)	18 (72)	1 (4)	0 (0)	25 (100)
34	Motor Vehicles, Trailers & Semi-Trailers	13 (24)	36 (65)	6 (11)	0 (0)	55 (100)
35	Transport Equipments	0 (0)	8 (100)	0 (0)	0 (0)	8 (100)
36	Furniture,Jewellery,sports goods,toys & stationery	0 (0)	4 (100)	0 (0)	0 (0)	4 (100)
101	Total	184 (23)	434 (54)	186 (23)	7 (1)	811[#] (100)

*Figures in parenthesis indicate percentage of reporting units.

Number of total R&D units exceeds 698 due to multiple response.

Table 2b: Industrywise - External Sources of Know-How Leading to Innovation

2 digit Ind	Industry Name	Buyer	Collaborators	Suppliers	CSIR/Govt. departments	Universities	Collective learning	Local/regional institutions	IT	Imported technology adopted	Total
15	Food Products & Beverages	25 (34)	7 (9)	13 (18)	2 (3)	1 (1)	12 (16)	10 (14)	0 (0)	4 (5)	74 (100)
17	Textiles	64 (45)	9 (6)	37 (26)	10 (7)	0 (0)	11 (8)	11 (8)	0 (0)	0 (0)	142 (100)
18	Wearing Apparels	15 (36)	2 (5)	8 (19)	0 (0)	1 (2)	8 (19)	1 (2)	0 (0)	7 (17)	42 (100)
19	Leather Products	24 (40)	10 (17)	11 (18)	3 (5)	0 (0)	4 (7)	6 (10)	0 (0)	2 (3)	60 (100)
21	Paper & Paper Products	9 (69)	2 (15)	2 (15)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	13 (100)
23	Refined petroleum	1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	9 (90)	0 (0)	0 (0)	0 (0)	10 (100)
24	Chemicals & Chemical Pdt	12 (21)	5 (9)	4 (7)	5 (9)	0 (0)	15 (27)	12 (21)	0 (0)	3 (5)	56 (100)
25	Rubber & Plastic Products	3 (9)	2 (6)	8 (24)	1 (3)	0 (0)	6 (18)	5 (15)	0 (0)	9 (26)	34 (100)
26	Non-metallic mineral Products	20 (63)	2 (6)	9 (28)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	32 (100)
27	Basic Metals	3 (12)	2 (8)	4 (15)	0 (0)	0 (0)	9 (35)	8 (31)	0 (0)	0 (0)	26 (100)
28	Metal products	12 (25)	2 (4)	4 (9)	9 (19)	0 (0)	2 (4)	17 (36)	0 (0)	1 (2)	47 (100)
29	Machinery & Equipment	21 (22)	4 (4)	9 (9)	4 (4)	0 (0)	10 (11)	26 (27)	9 (9)	12 (13)	95 (100)
30	Office accounting & computing machinery	1 (25)	0 (0)	1 (25)	0 (0)	0 (0)	0 (0)	1 (25)	0 (0)	1 (25)	4 (100)
31	Electrical Machinery	12 (26)	5 (11)	4 (9)	1 (2)	0 (0)	6 (13)	10 (22)	0 (0)	8 (17)	46 (100)
32	Radio, TV, Communication Equip. & Appliances	7 (18)	2 (5)	8 (21)	1 (3)	2 (5)	6 (15)	6 (15)	0 (0)	7 (18)	39 (100)
33	Medical, Precision, Optical Instruments, Watches	8 (28)	7 (24)	10 (34)	1 (3)	1 (3)	2 (7)	0 (0)	0 (0)	0 (0)	29 (100)
34	Motor Vehicles, Trailers & Semi-Trailers	23 (43)	1 (2)	0 (0)	3 (6)	0 (0)	6 (11)	9 (17)	1 (2)	10 (19)	53 (100)
35	Transport Equipments	0 (0)	0 (0)	3 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (100)
36	Furniture, Jewellery, sports goods, toys & stationery	8 (80)	0 (0)	1 (10)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	10 (100)
101	Total	268 (33)	62 (8)	136 (17)	40 (5)	5 (1)	107 (13)	123 (15)	10 (1)	64 (8)	815*

*Figures in parenthesis indicate percentage of reporting units. # Number of total R&D units exceeds 698 due to multiple response.

Table 2c: Industrywise: Environmental Sources of Know-How Leading to Innovation

2 digit Ind	Industry Name	Technical collaboration	Alliances	Equity participation	Total
15	Food Products & Beverages	5 (20)	11 (44)	9 (36)	25 (100)
17	Textiles	7 (21)	11 (33)	15 (45)	33 (100)
18	Wearing Apparels	12 (41)	17 (59)	0 (0)	29 (100)
19	Leather Products	5 (42)	7 (58)	0 (0)	12 (100)
21	Paper & Paper Products	10 (100)	0 (0)	0 (0)	10 (100)
23	Refined petroleum	9 (100)	0 (0)	0 (0)	9 (100)
24	Chemicals & Chemical Pdts	16 (80)	2 (10)	2 (10)	20 (100)
25	Rubber & Plastic Products	14 (100)	0 (0)	0 (0)	14 (100)
26	Non-metallic mineral Products	0 (0)	0 (0)	8 (100)	8 (100)
27	Basic Metals	1 (50)	0 (0)	1 (50)	2 (100)
28	Metal products	13 (57)	8 (35)	2 (9)	23 (100)
29	Machinery & Equipment	9 (38)	7 (29)	8 (33)	24 (100)
31	Electrical Machinery	6 (46)	5 (38)	2 (15)	13 (100)
32	Radio, TV,Communication Equip. & Appliances	13 (87)	1 (7)	1 (7)	15 (100)
33	Medical, Precision, Optical Instruments, Watches	2 (11)	16 (89)	0 (0)	18 (100)
34	Motor Vehicles,Trailers & Semi-Trailers	12 (86)	0 (0)	2 (14)	14 (100)
35	Transport Equipments	0 (0)	0 (0)	5 (100)	5 (100)
101	Total	134 (49)	85 (31)	55 (20)	274[#] (100)

*Figures in parenthesis indicate percentage of reporting units. # Number of total R&D units is less than 698 due to non-response by some units.

Table 3: Innovative activities undertaken by all R & D Performing Units in Different Product Clusters (Number of Reporting Units)

Activities	Existing Product	New Product	Existing Process	New Process
New Technology	379	354	250	275
Existing Technology	321	219	281	252
New system/new machines	252	251	230	213
New materials	268	287	165	177
New packaging	149	151	211	204
Quality improvement	624	****	****	552
Adoption of imported technology	163	99	142	165
Modification	417	416	****	****

Table 4: Statewise- Business Environment: Facilities Available (Percentage of Reporting Units)													
Sr. No.	State (State code)	Arising out of Product Cluster:Facilities Available						Arising out of Collaborative Customers					
		Infrastructure	Factor Endowment	Industrial Activities	Association help	Geographical	Supplier of Raw Materials	purchased of product	Knowledge	Capital goods	Scientists	Part in Production	Others
1	Andhra Pradesh (10)	50	63	22	56	50	60	28	57	27	17	18	0
2	Chhatis Garh (15)	90	100	80	20	40	90	10	40	0	30	0	33
3	Delhi (16)	54	61	64	10	50	97	24	100	70	44	67	10
4	Goa (17)	67	100	75	25	67	75	50	100	67	100	67	0
5	Gujarat (4)	89	93	89	30	44	67	30	85	78	83	89	8
6	Haryana (5)	60	94	71	21	27	66	32	58	52	42	36	0
7	Himachal Pradesh (18)	57	86	71	14	57	29	43	14	14	0	0	0
8	Jharkhand (13)	65	90	75	65	70	45	40	75	55	45	35	0
9	Karnataka (11)	69	73	70	32	28	74	29	48	19	30	32	4
10	Kerala (12)	50	65	55	47	37	20	65	47	21	55	65	5
11	Maharashtra (8)	75	82	62	35	40	50	46	46	15	15	25	1
12	MP (14)	50	80	44	57	29	56	13	56	22	25	22	0
13	Orissa (9)	40	70	50	60	60	90	60	100	90	50	60	0
14	Punjab (1)	50	54	27	9	13	39	31	48	29	35	16	0
15	Rajasthan (3)	55	96	97	20	47	100	58	86	21	39	88	0
16	Tamil Nadu (7)	83	65	96	74	52	70	26	65	61	65	61	5
17	Uttar Pradesh (2)	73	96	53	47	54	79	36	72	48	26	40	6
18	West Bengal (6)	58	83	85	41	58	70	60	47	42	24	42	6
19	All India (20)	68	82	68	36	44	65	38	64	41	40	46	4

Table 5a: Industrywise- Methods of Contacting the Local Suppliers (Percentage of Reporting Units)										
2 digit ind	Industry Name	Meetings	Local Associations	Social Gatherings	Trade Fairs	Purchase Sites	Visiting Home	Electronic Media	Others	Total
15	Food Products & Beverages	22	21	14	11	11	10	1	0	100
17	Textiles	18	16	14	15	16	4	13	4	100
18	Wearing Apparels	23	15	14	19	7	20	2	0	100
19	Leather Products	20	10	13	20	12	7	18	0	100
21	Paper & Paper Products	19	17	15	11	21	6	17	0	100
23	Refined petroleum	25	25	0	23	3	3	23	0	100
24	Chemicals & Chemical Pdt	28	15	9	16	3	6	23	1	100
25	Rubber & Plastic Products	24	14	18	12	7	4	15	6	100
26	Non-metallic mineral Products	10	20	11	11	20	11	14	3	100
27	Basic Metals	16	14	14	17	18	13	8	0	100
28	Metal products	20	14	10	13	14	12	14	3	100
29	Machinery & Equipment	21	13	10	21	8	5	17	5	100
30	Office accounting & computing machinery	33	17	17	33	0	0	0	0	100
31	Electrical Machinery	19	13	10	22	16	8	11	2	100
32	Radio, TV,Communication Equip. & Appliances	21	18	8	23	4	0	21	5	100
33	Medical, Precision, Optical Instruments, Watches	22	12	4	13	15	11	21	2	100
34	Motor Vehicles, Trailers & Semi-Trailers	22	14	8	17	8	9	20	2	100
35	Transport Equipments	24	24	16	11	0	16	8	0	100
36	Furniture,Jewellery,sports goods,toys & stationery	0	28	0	6	22	33	11	0	100
101	Total	20	15	11	17	11	7	15	3	100

Table 5b: Industrywise: Methods of Contacting the Foreign Suppliers (Percentage of Reporting Units)										
2 digit ind	Industry Name	Meetings	Local Associations	Social Gatherings	Trade Fairs	Purchase Sites	Visiting Home	Electronic Media	Others	Total
15	Food Products & Beverages	16	11	5	16	14	11	24	3	100
17	Textiles	16	9	3	20	14	8	22	1	100
18	Wearing Apparels	16	0	0	18	9	5	14	0	100
19	Leather Products	16	7	8	22	14	22	0	0	100
24	Chemicals & Chemical Pdt's	32	9	5	9	9	0	32	5	100
25	Rubber & Plastic Products	25	0	0	25	25	25	0	0	100
26	Non-metallic mineral Products	18	6	6	36	12	6	18	0	100
27	Basic Metals	12	8	15	15	31	16	15	2	100
28	Metal products	17	4	9	30	13	5	22	0	100
29	Machinery & Equipment	22	7	0	37	0	7	26	0	100
30	Office accounting & computing machinery	29	14	14	29	14	0	0	0	100
31	Electrical Machinery	15	6	6	30	13	6	21	4	100
32	Radio, TV, Communication Equip. & Appliances	21	0	4	36	4	0	29	7	100
33	Medical, Precision, Optical Instruments, Watches	18	9	0	18	18	0	36	0	100
34	Motor Vehicles, Trailers & Semi-Trailers	24	2	4	22	17	2	28	0	100
101	Total	22	7	6	22	13	7	22	1	100

Table 6: Statewise-Location Specific Advantages for All Units

	No. of Units	Ranks given by Units (Percent)							
		Rank-1	Rank-2	Rank-3	Rank-4	Rank-5	Rank-6	Rank-7	Percent
Andhra Pradesh									
Access to airport etc	30	23	17	7	17	13	3	20	100
Business atmosphere	30	17	17	27	23	17	0	0	100
Technology	30	20	20	7	20	17	7	10	100
Technical Manpower	30	13	10	20	17	3	20	17	100
Land & building	30	17	33	17	3	7	13	10	100
School,Hospital	30	13	13	7	13	23	20	10	100
Local Agencies	30	3	10	17	3	20	17	30	100
Chhattisgarh									
Access to airport etc	10	20	40	20	20	0	0	0	100
Business atmosphere	10	80	20	0	0	0	0	0	100
Technology	10	0	20	0	0	10	40	30	100
Technical Manpower	10	0	0	0	0	20	40	40	100
Land & building	10	0	20	40	0	30	0	10	100
School,Hospital	10	0	0	40	40	10	0	10	100
Local Agencies	10	0	0	0	30	40	20	10	100
Delhi									
Access to airport etc	30	7	20	13	37	7	7	10	100
Business atmosphere	30	17	30	13	3	10	17	10	100
Technology	30	40	37	17	0	7	0	0	100
Technical Manpower	30	3	10	27	10	17	13	20	100
Land & building	30	3	0	27	37	20	7	7	100
School,Hospital	30	0	3	3	17	33	43	0	100
Local Agencies	30	30	0	0	0	7	13	50	100
Goa									
Access to airport etc	4	25	25	25	0	0	25	0	100
Business atmosphere	4	50	0	25	0	0	25	0	100
Technology	4	0	0	0	50	50	0	0	100
Technical Manpower	4	0	25	0	25	0	50	0	100
Land & building	4	25	25	25	0	25	0	0	100
School,Hospital	4	0	25	25	0	25	0	25	100
Local Agencies	4	0	0	0	25	0	0	75	100
Gujarat									
Access to airport etc	100	15	19	29	16	13	3	5	100
Business atmosphere	100	62	15	5	5	6	2	5	100
Technology	100	4	22	9	7	10	5	40	100
Technical Manpower	100	1	22	27	18	4	19	9	100
Land & building	100	14	17	18	36	7	4	4	100
School,Hospital	100	2	3	9	6	14	46	19	100
Local Agencies	100	3	2	2	12	45	20	15	100
Haryana									
Access to airport etc	50	18	20	10	10	26	10	6	100
Business atmosphere	50	78	18	2	2	0	0	0	100
Technology	50	2	28	18	6	6	12	28	100
Technical Manpower	50	0	12	32	18	12	14	12	100
Land & building	50	2	26	22	26	14	10	0	100
School,Hospital	50	0	0	16	36	18	26	4	100
Local Agencies	50	0	2	0	2	24	28	44	100

Table 6: Statewise-Location Specific Advantages for All Units									
	No.of Units	Ranks given by Units (Percent)							
		Rank-1	Rank-2	Rank-3	Rank-4	Rank-5	Rank-6	Rank-7	Percent
Himachal Pradesh									
Access to airport etc	7	14	0	57	14	0	0	14	100
Business atmosphere	7	0	43	14	29	0	14	0	100
Technology	7	0	29	29	14	29	0	0	100
Technical Manpower	7	14	29	0	14	29	14	0	100
Land & building	7	43	0	0	0	14	29	14	100
School,Hospital	7	14	0	0	14	14	43	14	100
Local Agencies	7	14	0	0	14	14	0	57	100
Jharkhand									
Access to airport etc	20	40	25	10	5	5	5	10	100
Business atmosphere	20	50	20	10	10	5	0	5	100
Technology	20	0	20	35	25	10	5	5	100
Technical Manpower	20	0	25	25	20	25	5	0	100
Land & building	20	10	5	15	10	5	5	50	100
School,Hospital	20	0	5	5	30	25	25	10	100
Local Agencies	20	0	0	0	0	25	55	20	100
Karnataka									
Access to airport etc	50	16	6	12	10	20	12	24	100
Business atmosphere	50	38	26	8	8	14	2	4	100
Technology	50	4	26	24	20	4	16	6	100
Technical Manpower	50	6	4	28	26	22	6	8	100
Land & building	50	36	20	10	20	14	0	0	100
School,Hospital	50	2	14	12	8	20	36	8	100
Local Agencies	50	0	4	4	10	6	26	50	100
Kerala									
Access to airport etc	20	35	25	10	15	10	0	5	100
Business atmosphere	20	15	10	15	20	15	20	5	100
Technology	20	20	20	10	20	10	10	10	100
Technical Manpower	20	5	15	10	5	25	25	15	100
Land & building	20	15	25	5	20	10	5	20	100
School,Hospital	20	0	15	30	10	15	5	25	100
Local Agencies	20	5	5	25	10	15	30	10	100
Maharashtra									
Access to airport etc	115	17	32	17	10	5	5	13	100
Business atmosphere	115	37	11	18	17	9	3	5	100
Technology	115	11	15	17	17	13	10	17	100
Technical Manpower	115	10	16	14	16	18	11	15	100
Land & building	115	16	13	15	18	14	17	8	100
School,Hospital	115	9	10	10	14	22	28	8	100
Local Agencies	115	2	3	9	8	18	26	33	100
Madhya Pradesh									
Access to airport etc	10	20	20	10	10	10	10	20	100
Business atmosphere	10	30	10	10	40	0	10	0	100
Technology	10	0	30	20	10	20	20	0	100
Technical Manpower	10	10	10	10	30	30	10	0	100
Land & building	10	30	20	30	0	0	20	0	100
School,Hospital	10	0	0	20	0	30	10	40	100
Local Agencies	10	10	10	0	10	10	20	40	100

Table 6: Statewise-Location Specific Advantages for All Units									
	No.of Units	Ranks given by Units (Percent)							
		Rank-1	Rank-2	Rank-3	Rank-4	Rank-5	Rank-6	Rank-7	Percent
Orissa									
Access to airport etc	10	20	20	0	20	20	10	10	100
Business atmosphere	10	40	20	40	0	0	0	0	100
Technology	10	10	10	0	10	20	30	20	100
Technical Manpower	10	20	10	10	10	10	20	20	100
Land & building	10	10	30	30	10	10	10	0	100
School,Hospital	10	0	0	10	50	10	20	10	100
Local Agencies	10	0	10	10	0	30	10	40	100
Punjab									
Access to airport etc	50	30	18	14	10	10	2	16	100
Business atmosphere	50	46	22	14	8	4	4	2	100
Technology	50	6	16	18	16	22	16	6	100
Technical Manpower	50	10	18	12	12	12	20	16	100
Land & building	50	2	18	26	22	10	8	14	100
School,Hospital	50	4	8	12	22	26	18	10	100
Local Agencies	50	2	0	4	10	16	30	36	100
Rajasthan									
Access to airport etc	29	7	24	41	24	0	0	3	100
Business atmosphere	29	48	28	17	7	0	0	0	100
Technology	29	45	14	14	3	14	10	0	100
Technical Manpower	29	0	24	7	38	17	14	0	100
Land & building	29	0	10	14	24	48	3	0	100
School,Hospital	29	0	0	7	3	10	55	24	100
Local Agencies	29	0	0	0	0	10	17	72	100
Tamil Nadu									
Access to airport etc	23	13	0	0	13	30	13	30	100
Business atmosphere	23	57	13	13	17	0	0	0	100
Technology	23	4	17	43	17	17	0	0	100
Technical Manpower	23	4	43	22	13	17	0	0	100
Land & building	23	0	9	4	0	13	65	9	100
School,Hospital	23	4	0	4	9	17	13	52	100
Local Agencies	23	26	22	22	22	0	4	4	100
Uttar Pradesh									
Access to airport etc	100	7	15	30	15	24	2	7	100
Business atmosphere	100	31	29	13	18	7	0	2	100
Technology	100	16	20	15	14	13	13	9	100
Technical Manpower	100	12	5	10	31	25	14	3	100
Land & building	100	27	22	14	4	15	16	2	100
School,Hospital	100	5	8	14	12	13	33	15	100
Local Agencies	100	2	2	2	3	8	20	62	100

Table 6: Statewise-Location Specific Advantages for All Units									
	No. of Units	Ranks given by Units (Percent)							
		Rank-1	Rank-2	Rank-3	Rank-4	Rank-5	Rank-6	Rank-7	Percent
West Bengal									
Access to airport etc	40	45	15	10	5	8	5	13	100
Business atmosphere	40	20	35	15	8	10	3	10	100
Technology	40	10	23	30	15	10	5	8	100
Technical Manpower	40	18	20	18	15	10	18	3	100
Land & building	40	5	5	13	18	13	25	23	100
School,Hospital	40	3	5	8	15	30	25	15	100
Local Agencies	40	0	0	10	23	20	20	28	100
All India									
Access to airport etc	689	18	19	19	14	13	5	11	100
Business atmosphere	689	42	20	13	11	7	3	4	100
Technology	689	11	21	17	13	12	10	15	100
Technical Manpower	689	7	15	18	19	16	15	10	100
Land & building	689	14	17	17	18	14	12	8	100
School,Hospital	689	4	6	11	15	19	30	14	100
Local Agencies	689	4	3	5	8	19	22	37	100

Table 7a: State-wise Availability of Important Services for All Product Clusters

Sr. No.	State Name (State code)	Legal				Computer				Accountancy				Design & Advertising							
		Good	Moderate	Fair	Poor	Total	Good	Moderate	Fair	Poor	Total	Good	Moderate	Fair	Poor	Total					
1	Andhra Pradesh (16)	11 (39)	8 (29)	8 (29)	1 (4)	28 (100)	9 (30)	15 (50)	6 (20)	0 (0)	30 (100)	12 (40)	12 (40)	6 (20)	0 (0)	30 (100)	7 (24)	17 (59)	4 (14)	1 (3)	29 (100)
2	Chhatis Garh (15)	3 (30)	6 (60)	1 (10)	0 (0)	10 (100)	1 (10)	4 (40)	3 (30)	2 (20)	10 (100)	7 (70)	3 (30)	0 (0)	0 (0)	10 (100)	0 (0)	2 (20)	3 (30)	5 (50)	10 (100)
3	Delhi (16)	3 (14)	1 (5)	14 (64)	4 (18)	22 (100)	13 (45)	9 (31)	5 (17)	2 (7)	29 (100)	4 (13)	16 (53)	8 (27)	2 (7)	30 (100)	4 (13)	19 (63)	7 (23)	0 (0)	30 (100)
4	Goa (17)	2 (67)	0 (0)	0 (0)	1 (33)	3 (100)	2 (60)	0 (0)	1 (25)	4 (100)	4 (100)	4 (100)	0 (0)	0 (0)	4 (100)	3 (100)	3 (100)	0 (0)	0 (0)	0 (0)	3 (100)
5	Gujarat (4)	18 (18)	70 (70)	8 (8)	4 (4)	100 (100)	73 (73)	14 (14)	11 (11)	2 (2)	100 (100)	74 (74)	17 (17)	8 (8)	1 (1)	100 (100)	7 (8)	54 (59)	20 (22)	10 (11)	91 (100)
6	Haryana (5)	20 (40)	7 (14)	14 (28)	9 (18)	50 (100)	22 (44)	7 (14)	12 (24)	9 (18)	50 (100)	10 (20)	24 (48)	8 (16)	7 (14)	49 (100)	10 (20)	14 (28)	21 (42)	4 (8)	49 (100)
7	Himachal Pradesh	2 (29)	4 (57)	1 (14)	0 (0)	7 (100)	2 (29)	5 (71)	0 (0)	0 (0)	7 (100)	3 (50)	3 (50)	0 (0)	0 (0)	6 (100)	3 (50)	3 (50)	0 (0)	0 (0)	6 (100)
8	Jharkhand (13)	4 (20)	14 (70)	2 (10)	0 (0)	20 (100)	5 (25)	12 (60)	3 (15)	0 (0)	20 (100)	4 (20)	15 (75)	1 (5)	0 (0)	20 (100)	3 (15)	6 (30)	11 (55)	0 (0)	20 (100)
9	Karnataka (11)	9 (21)	12 (28)	12 (28)	10 (23)	43 (100)	15 (37)	11 (27)	9 (22)	6 (15)	41 (100)	14 (29)	16 (33)	16 (33)	3 (6)	49 (100)	16 (33)	19 (39)	14 (29)	0 (0)	49 (100)
10	Kerala (12)	5 (28)	11 (61)	2 (11)	0 (0)	18 (100)	19 (95)	1 (5)	0 (0)	0 (0)	20 (100)	18 (90)	2 (10)	0 (0)	0 (0)	20 (100)	6 (30)	12 (60)	2 (10)	0 (0)	20 (100)
11	Maharashtra (8)	5 (50)	2 (20)	3 (30)	0 (0)	10 (100)	5 (50)	3 (30)	2 (20)	0 (0)	10 (100)	4 (40)	2 (20)	4 (40)	0 (0)	10 (100)	1 (11)	1 (11)	2 (22)	5 (56)	9 (100)
12	MP (14)	32 (29)	43 (39)	29 (26)	6 (5)	110 (100)	47 (42)	37 (33)	13 (12)	15 (13)	112 (100)	45 (39)	47 (41)	19 (17)	3 (3)	114 (100)	29 (28)	39 (37)	20 (19)	17 (16)	105 (100)
13	Orissa (9)	4 (40)	3 (30)	3 (30)	0 (0)	10 (100)	3 (38)	5 (63)	0 (0)	0 (0)	8 (100)	2 (20)	8 (80)	0 (0)	0 (0)	10 (100)	0 (0)	1 (13)	5 (63)	2 (25)	8 (100)
14	Punjab (1)	32 (64)	13 (26)	5 (10)	0 (0)	50 (100)	40 (80)	6 (12)	4 (8)	0 (0)	50 (100)	40 (80)	8 (16)	2 (4)	0 (0)	50 (100)	24 (48)	10 (20)	12 (24)	4 (8)	50 (100)
15	Rajasthan (3)	6 (22)	4 (15)	15 (56)	2 (7)	27 (100)	7 (24)	16 (55)	6 (21)	0 (0)	29 (100)	1 (3)	18 (62)	9 (31)	1 (3)	29 (100)	10 (34)	10 (34)	9 (31)	0 (0)	29 (100)
16	Tamil Nadu (7)	10 (45)	6 (27)	2 (9)	4 (18)	22 (100)	17 (74)	5 (22)	1 (4)	0 (0)	23 (100)	9 (39)	12 (52)	2 (9)	0 (0)	23 (100)	12 (52)	8 (35)	3 (13)	0 (0)	23 (100)
17	Uttar Pradesh (2)	38 (40)	38 (40)	12 (13)	7 (7)	95 (100)	42 (44)	34 (36)	16 (17)	3 (3)	95 (100)	32 (32)	54 (54)	8 (8)	6 (6)	100 (100)	36 (38)	45 (47)	9 (9)	6 (6)	96 (100)
18	West Bengal (6)	13 (33)	13 (33)	8 (21)	5 (13)	39 (100)	13 (33)	11 (28)	7 (18)	8 (21)	39 (100)	12 (30)	18 (45)	10 (25)	0 (0)	40 (100)	3 (8)	17 (45)	14 (37)	4 (11)	38 (100)
	All India (20)	217 (33)	255 (38)	139 (21)	53 (8)	664 (100)	335 (49)	195 (29)	99 (15)	48 (7)	677 (100)	295 (43)	275 (40)	101 (15)	23 (3)	694 (100)	174 (26)	277 (42)	156 (23)	58 (9)	665 (100)

Figures in parenthesis indicate percentage of reporting units. # Number of total R&D units is less than 698 due to non-response by some units.

Table 7b: Statewise-Availability of Important Services for All Product Clusters

Sr. No.	State Name (State code)	Venture Capital					Courier services					Banks				
		Good	Moderate	Fair	Poor	Total	Good	Moderate	Fair	Poor	Total	Good	Moderate	Fair	Poor	Total
1	Andhra Pradesh (10)	6 (22)	11 (41)	7 (26)	3 (11)	27 (100)	14 (47)	10 (33)	5 (20)	0 (0)	30 (100)	12 (40)	12 (40)	6 (20)	0 (0)	30 (100)
2	Chhatis Garh (15)	0 (0)	1 (13)	0 (0)	7 (88)	8 (100)	2 (20)	0 (0)	3 (30)	10 (100)	0 (0)	3 (30)	7 (70)	0 (0)	10 (100)	
3	Delhi (16)	0 (0)	6 (27)	11 (50)	5 (23)	22 (100)	6 (21)	7 (24)	11 (38)	29 (100)	1 (4)	12 (43)	10 (36)	5 (18)	28 (100)	
4	Goa (17)	2 (67)	0 (0)	1 (33)	0 (0)	3 (100)	4 (100)	0 (0)	0 (0)	4 (100)	4 (100)	0 (0)	0 (0)	0 (0)	4 (100)	
5	Gujarat (4)	11 (12)	6 (7)	65 (72)	8 (9)	90 (100)	18 (18)	18 (18)	64 (64)	100 (100)	27 (27)	72 (72)	1 (1)	0 (0)	100 (100)	
6	Haryana (5)	2 (5)	14 (34)	4 (10)	21 (51)	41 (100)	18 (36)	21 (42)	6 (12)	50 (100)	30 (60)	14 (28)	5 (10)	1 (2)	50 (100)	
7	Himachal Pradesh (18)	2 (29)	4 (57)	0 (0)	1 (14)	7 (100)	2 (29)	5 (71)	0 (0)	7 (100)	5 (83)	1 (17)	0 (0)	0 (0)	6 (100)	
8	Jharkhand (13)	2 (10)	3 (15)	7 (35)	8 (40)	20 (100)	1 (5)	7 (35)	11 (55)	20 (100)	7 (35)	9 (45)	4 (20)	0 (0)	20 (100)	
9	Karnataka (11)	12 (43)	7 (25)	7 (25)	2 (7)	28 (100)	22 (54)	14 (34)	5 (12)	41 (100)	18 (41)	18 (41)	6 (14)	2 (5)	44 (100)	
10	Kerala (12)	1 (6)	8 (44)	9 (50)	0 (0)	18 (100)	8 (40)	11 (55)	1 (5)	20 (100)	4 (21)	10 (53)	5 (26)	0 (0)	19 (100)	
11	Maharashtra (8)	0 (0)	3 (33)	1 (11)	5 (56)	9 (100)	3 (30)	3 (30)	4 (40)	10 (100)	6 (60)	1 (10)	2 (20)	1 (10)	10 (100)	
12	MP (14)	3 (3)	31 (32)	39 (40)	25 (26)	98 (100)	26 (24)	48 (44)	22 (20)	109 (100)	60 (54)	39 (35)	9 (8)	3 (3)	111 (100)	
13	Orissa (9)	1 (11)	2 (22)	4 (44)	2 (22)	9 (100)	2 (20)	1 (10)	1 (10)	10 (100)	5 (50)	3 (30)	0 (0)	2 (20)	10 (100)	
14	Punjab (1)	9 (23)	8 (21)	10 (26)	12 (31)	39 (100)	30 (60)	13 (26)	7 (14)	50 (100)	49 (98)	1 (2)	0 (0)	0 (0)	50 (100)	
15	Rajasthan (3)	0 (0)	1 (6)	0 (0)	17 (94)	18 (100)	3 (10)	14 (48)	8 (28)	29 (100)	3 (10)	18 (62)	7 (24)	1 (3)	29 (100)	
16	Tamil Nadu (7)	0 (0)	7 (30)	5 (22)	11 (48)	23 (100)	9 (39)	13 (57)	0 (0)	23 (100)	17 (74)	5 (22)	1 (4)	0 (0)	23 (100)	
17	Uttar Pradesh (2)	14 (16)	31 (36)	12 (14)	30 (34)	87 (100)	62 (65)	19 (20)	9 (9)	95 (100)	72 (73)	22 (22)	1 (1)	3 (3)	98 (100)	
18	West Bengal (6)	4 (11)	5 (13)	13 (34)	16 (42)	38 (100)	14 (35)	17 (43)	6 (15)	40 (100)	15 (38)	17 (43)	3 (8)	5 (13)	40 (100)	
	All India (20)	69 (12)	148 (25)	195 (33)	173 (30)	585 ^a (100)	244 (36)	221 (33)	164 (24)	677 ^a (100)	335 (49)	257 (38)	67 (10)	23 (3)	682 ^a (100)	

Figures in parenthesis indicate percentage of reporting units. # Number of total R&D units is less than 698 due to non-response by some units

Table 8a: Industrywise - R&D Expenditure

2 digit Ind	Industry Name	2000-2001(Rs. thousands)					
		In-house		Extramural		Total	
		Rep. Units	Rs	Rep. Units	Rs	Rep. Units	Rs
15	Food Products & Beverages	67	17645	5	430	67	18075
17	Textiles	106	28877	28	3173	106	31050
18	Wearing Apparels	30	14683	7	1422	30	15105
19	Leather Products	38	8500	21	6720	40	13170
21	Paper & Paper Products	8	632	7	313	10	945
23	Refined petroleum	10	5090	0	0	10	5090
24	Chemicals & Chemical Pdts	32	16660	6	2205	32	16885
25	Rubber & Plastic Products	28	9194	0	0	28	9194
26	Non-metallic mineral Products	20	4705	4	175	20	4880
27	Basic Metals	22	3130	15	3075	32	5855
28	Metal products	50	12934	12	1800	57	14734
29	Machinery & Equipment	91	19344	16	1604	94	20947
30	Office accounting & computing machinery	2	2000	0	0	2	2000
31	Electrical Machinery	42	12782	14	1980	43	13612
32	Radio, TV,Communication Equip. & Appliances	28	17083	8	2170	29	17853
33	Medical, Precision, Optical Instruments, Watches	23	5180	1	600	24	5780
34	Motor Vehicles,Trailers & Semi-Trailers	48	21947	11	1260	50	22707
35	Transport Equipments	10	1430	0	0	10	1430
36	Furniture,Jewellery,sports goods,toys & stationery	9	1050	1	130	10	1180
101	Total	664	202864	156	27056	694	220491

Table 8b: Industrywise - R&D Expenditure

2 digit Ind	Industry Name	1999-2000 (Rs. thousands)					
		In-house		Extramural		Total	
		Rep. Units	Rs	Rep. Units	Rs	Rep. Units	Rs
15	Food Products & Beverages	65	16192	5	370	65	16562
17	Textiles	105	26950	29	3212	105	29162
18	Wearing Apparels	29	13348	8	1297	30	13845
19	Leather Products	38	8254	21	6116	40	12370
21	Paper & Paper Products	6	495	7	305	10	800
23	Refined petroleum	10	3792	0	0	10	3792
24	Chemicals & Chemical Pdts	32	15180	6	2440	32	15740
25	Rubber & Plastic Products	24	7786	0	0	24	7786
26	Non-metallic mineral Products	20	3920	4	180	20	4100
27	Basic Metals	21	3130	15	2794	31	5544
28	Metal products	48	11571	11	1485	55	13056
29	Machinery & Equipment	88	18020	17	1638	91	19657
30	Office accounting & computing machinery	2	1050	0	0	2	1050
31	Electrical Machinery	42	12179	15	1915	43	12944
32	Radio, TV,Communication Equip. & Appliances	28	16543	10	1875	29	17417
33	Medical, Precision, Optical Instruments, Watches	24	4435	0	0	24	4435
34	Motor Vehicles,Trailers & Semi-Trailers	47	20457	8	1045	48	20952
35	Transport Equipments	10	1420	0	0	10	1420
36	Furniture,Jewellery,sports goods,toys & stationery	9	960	1	120	10	1080
101	Total	648	185681	157	24791	679	201712

Table 8c: Industrywise - R&D Expenditure

2 digit Ind	Industry Name	1998-1999 (Rs. thousands)					
		In-house		Extramural		Total	
		Rep. Units	Rs	Rep. Units	Rs	Rep. Units	Rs
15	Food Products & Beverages	56	13235	5	370	56	13605
17	Textiles	99	24133	22	2140	99	25773
18	Wearing Apparels	27	10804	8	963	28	11267
19	Leather Products	36	7680	21	5945	39	12325
21	Paper & Paper Products	6	482	7	289	10	771
23	Refined petroleum	10	3078	0	0	10	3078
24	Chemicals & Chemical Pdts	31	13845	5	2190	31	14155
25	Rubber & Plastic Products	20	6741	0	0	20	6741
26	Non-metallic mineral Products	20	3740	4	120	20	3860
27	Basic Metals	20	2760	15	2667	30	5027
28	Metal products	44	9898	10	1380	51	11278
29	Machinery & Equipment	84	15696	15	1437	67	17132
30	Office accounting & computing machinery	2	1023	0	0	2	1023
31	Electrical Machinery	41	11530	14	1744	42	12124
32	Radio, TV, Communication Equip. & Appliances	25	11611	8	1590	26	12201
33	Medical, Precision, Optical Instruments, Watches	23	3535	0	0	23	3535
34	Motor Vehicles, Trailers & Semi-Trailers	47	19329	9	923	48	19802
35	Transport Equipments	10	1410	0	0	10	1410
36	Furniture, Jewellery, sports goods, toys & stationery	9	950	1	110	10	1060
101	Total	610	161479	144	21868	642	176166

Table 9a: Industrywise- Total Capital Expenditure by Major Heads - 2000-2001 (Rs. '000)											
2 digit Ind	Industry Name	Rep. Units	Investment on land, building for R&D	Rep. Units	Investment on advanced equipment	Rep. Units	Patent purchased/ IPR	Rep. units	Amount spent on training	Rep. Units	Total capital expenditure
15	Food Products & Beverages	11	755	48	7138	0	0	33	7100	63	13992
17	Textiles	38	5195	35	10424	9	605	46	5809	92	21243
18	Wearing Apparels	12	3880	16	4459	0	0	5	350	28	8589
19	Leather Products	2	150	22	4394	2	325	30	2215	34	6784
21	Paper & Paper Products	3	117	6	240	0	0	1	5	8	352
23	Refined petroleum	0	0	10	6640	0	0	0	0	10	6640
24	Chemicals & Chemical Pdt	14	6150	23	5550	2	300	13	3575	28	13064
25	Rubber & Plastic Products	8	3725	20	6622	1	100	5	70	25	10517
26	Non-metallic mineral Products	6	730	11	1210	1	30	2	70	17	2040
27	Basic Metals	1	20	15	1490	0	0	10	700	16	2210
28	Metal products	7	1605	26	3670	1	40	17	2189	30	5705
29	Machinery & Equipment	17	2620	39	6595	4	600	24	6200	58	15695
30	Office accounting & computing machinery	1	1000	2	1250	0	0	2	450	2	1500
31	Electrical Machinery	6	1022	21	3029	3	195	18	2583	27	6229
32	Radio, TV, Communication Equip. & Appliances	8	1730	22	7840	0	0	7	960	23	10030
33	Medical, Precision, Optical Instruments, Watches	13	1458	16	1461	0	0	2	6	18	2925
34	Motor Vehicles, Trailers & Semi-Trailers	11	8199	24	5160	0	0	22	8264	36	15803
35	Transport Equipments	2	165	0	0	0	0	1	20	3	185
36	Furniture, Jewellery, sports goods, toys & stationary	0	0	0	0	0	0	1	30	1	30
101	Total	160	38520	356	77171	23	2195	239	40594	519	143541

Table 9b: Industrywise- Total Capital Expenditure by Major Heads - 1999-2000 (Rs. '000)											
2 digit Ind	Industry Name	Rep. Units	Investment on land, building for R&D	Rep. Units	Investment on advanced equipment	Rep. Units	Patent purchased/ IPR	Rep. units	Amount spent on training	Rep. Units	Total capital expenditure
15	Food Products & Beverages	6	379	42	6101	0	0	32	6289	56	11768
17	Textiles	43	9225	4	130	4	130	40	4938	91	18205
18	Wearing Apparels	15	4045	13	4102	0	0	3	170	26	8317
19	Leather Products	4	820	21	3801	2	300	28	1880	34	6601
21	Paper & Paper Products	4	140	4	130	0	0	1	5	6	275
23	Refined petroleum	0	0	10	5490	0	0	0	0	10	5490
24	Chemicals & Chemical Pdtis	15	5585	20	6905	2	400	13	2880	28	13334
25	Rubber & Plastic Products	9	2145	19	5985	0	0	4	55	22	8185
26	Non-metallic mineral Products	5	400	10	1050	1	40	2	45	15	1535
27	Basic Metals	1	20	16	1560	0	0	13	920	21	2500
28	Metal products	8	2425	24	4151	1	30	17	2132	28	5939
29	Machinery & Equipment	11	1435	36	6585	3	450	24	5878	54	14348
30	Office accounting & computing machinery	1	1000	2	2000	0	0	2	615	2	2000
31	Electrical Machinery	6	690	19	2940	3	150	17	2147	27	5327
32	Radio, TV, Communication Equip. & Appliances	8	1855	22	7145	0	0	8	905	23	9405
33	Medical, Precision, Optical Instruments, Watches	12	1153	14	773	0	0	2	6	17	1932
34	Motor Vehicles, Trailers & Semi-Trailers	10	8099	21	4000	1	4	22	8053	35	14536
35	Transport Equipments	2	160	0	0	0	0	1	20	3	180
36	Furniture, Jewellery, sports goods, toys & stationery	0	0	0	0	0	0	1	20	1	20
101	Total	151	34420	336	71942	17	1504	230	36957	499	129895

Table 9c: Industrywise- Total Capital Expenditure by Major Heads - 1998-1999 (Rs. '000)											
2 digit Ind	Industry Name	Rep. Units	Investment on land, building for R&D	Rep. Units	Investment on advanced equipment	Rep. Units	Patent purchased/ IPR	Rep. units	Amount spent on training	Rep. Units	Total capital expenditure
15	Food Products & Beverages	8	375	33	4797	0	0	27	2264	46	6436
17	Textiles	28	3400	35	7400	3	70	37	4670	81	15230
18	Wearing Apparels	11	2905	12	3464	0	0	4	150	22	6519
19	Leather Products	3	170	19	3444	2	270	27	2044	31	5728
21	Paper & Paper Products	4	153	3	100	0	0	0	0	6	253
23	Refined petroleum	0	0	10	4080	0	0	0	0	10	4080
24	Chemicals & Chemical Pdis	14	5355	22	5540	0	0	13	3035	27	12335
25	Rubber & Plastic Products	7	1422	13	4955	0	0	3	45	17	6432
26	Non-metallic mineral Products	5	380	8	740	1	30	4	265	15	1415
27	Basic Metals	0	0	20	1956	0	0	13	815	21	2771
28	Metal products	10	2380	20	3069	1	25	16	2060	25	5734
29	Machinery & Equipment	12	1367	33	5951	3	265	22	5294	52	12877
30	Office accounting & computing machinery	1	400	2	1200	0	0	1	400	2	1250
31	Electrical Machinery	5	1230	19	3352	3	85	17	2099	25	5566
32	Radio, TV, Communication Equip. & Appliances	4	385	16	4515	0	0	6	355	19	5255
33	Medical, Precision, Optical Instruments, Watches	11	1050	7	563	0	0	2	6	17	1619
34	Motor Vehicles, Trailers & Semi-Trailers	11	7399	18	2541	1	10	19	8655	31	14315
35	Transport Equipments	2	155	0	0	0	0	1	20	3	175
36	Furniture, Jewellery, sports goods, toys & stationery	0	0	0	0	0	0	0	0	1	20
101	Total	136	28526	290	57676	14	755	213	32196	451	108008

Table 9d: Industrywise- Total Revenue Expenditure by Major Heads - 2000-2001 (Rs. '000)

2 digit Ind	Industry Name	Rep. Units	Investment on manpower	Rep. units	Technology payments for scaling up R&D	Rep. Units	Payments to consultants for R&D	Rep. Units	International exposure	Rep. Units	Total revenue expenditure
15	Food Products & Beverages	39	5770	26	4039	27	4851	7	160	60	12296
17	Textiles	72	9489	28	2966	48	4528	23	3000	99	17883
18	Wearing Apparels	25	8667	2	102	8	390	11	1276	29	10035
19	Leather Products	29	6855	5	280	31	2853	14	746	39	10773
21	Paper & Paper Products	5	370	2	120	3	88	1	5	10	583
23	Refined petroleum	10	2840	0	0	0	0	0	0	10	2840
24	Chemicals & Chemical Pdt	27	7776	10	1420	11	2605	3	255	32	11151
25	Rubber & Plastic Products	23	4295	10	2110	15	1102	1	150	29	7657
26	Non-metallic mineral Products	14	2505	1	50	8	315	0	0	20	2870
27	Basic Metals	22	3060	5	500	6	725	1	40	31	4615
28	Metal products	41	4712	5	1320	16	2353	6	2750	51	10320
29	Machinery & Equipment	68	10576	23	1289	41	8114	13	655	92	20286
30	Office accounting & computing machinery	2	1900	1	250	1	450	1	200	2	2000
31	Electrical Machinery	33	5124	14	1357	25	2393	7	1233	43	9085
32	Radio, TV, Communication Equip. & Appliances	24	7470	9	2370	10	1750	3	1100	29	11690
33	Medical, Precision, Optical Instruments, Watches	21	2436	2	8	3	28	9	703	22	3201
34	Motor Vehicles, Trailers & Semi-Trailers	37	14710	18	2385	19	2124	4	95	49	19205
35	Transport Equipments	8	1265	0	0	0	0	0	0	8	1265
36	Furniture, Jewellery, sports goods, toys & stationery	10	1100	0	0	4	190	0	0	10	1290
101	Total	510	100919	161	20555	276	34859	104	12368	665	159043

Table 9e: Industrywise- Total Revenue Expenditure by Major Heads - 1999-2000 (Rs. '000)											
2 digit Ind	Industry Name	Rep. Units	Investment on manpower	Rep. units	Technology payments for scaling up R&D	Rep. Units	Payments to consultants for R&D	Rep. Units	International exposure	Rep. Units	Total revenue expenditure
15	Food Products & Beverages	38	5121	28	4017	25	4700	7	612	60	12443
17	Textiles	66	8633	26	2530	45	4271	18	2713	92	16512
18	Wearing Apparels	25	7605	2	62	7	270	9	1015	29	8972
19	Leather Products	29	6418	5	250	30	2528	13	616	39	10064
21	Paper & Paper Products	5	320	2	120	3	85	0	0	10	525
23	Refined petroleum	10	2570	0	0	0	0	0	0	10	2570
24	Chemicals & Chemical Pdis	27	7001	9	955	10	2350	4	365	32	10006
25	Rubber & Plastic Products	19	3260	8	1542	9	423	3	486	22	5711
26	Non-metallic mineral Products	13	1960	2	250	8	288	0	0	20	2518
27	Basic Metals	21	2550	4	330	6	744	1	50	30	3959
28	Metal products	39	4773	5	1267	20	2661	6	2195	51	9821
29	Machinery & Equipment	65	9701	24	1329	41	8029	12	619	90	19212
30	Office accounting & computing machinery	2	1900	1	250	1	650	1	350	2	2000
31	Electrical Machinery	33	4534	14	1356	24	2274	7	1185	44	8496
32	Radio, TV, Communication Equip. & Appliances	24	6892	9	1800	11	2005	1	1000	29	10647
33	Medical, Precision, Optical Instruments, Watches	22	2328	2	13	3	22	6	631	23	3021
34	Motor Vehicles, Trailers & Semi-Trailers	38	13240	18	2200	19	1992	4	130	49	18181
35	Transport Equipments	8	1260	0	0	0	0	0	0	8	1260
36	Furniture, Jewellery, sports goods, toys & stationery	10	1020	0	0	4	140	0	0	10	1160
101	Total	494	91105	159	18270	266	33472	92	11967	650	147076

Table 9f: Industrywise- Total Revenue Expenditure by Major Heads - 1998-1999 (Rs. '000)											
2 digit Ind	Industry Name	Rep. Units	Investment on manpower	Rep. units	Technology payments for scaling up R&D	Rep. Units	Payments to consultants for R&D	Rep. Units	International exposure	Rep. Units	Total revenue expenditure
15	Food Products & Beverages	34	4702	24	2568	23	1194	7	92	51	7214
17	Textiles	62	7712	23	1533	40	3406	19	1785	87	14191
18	Wearing Apparels	23	5402	2	73	8	270	8	685	27	6790
19	Leather Products	27	5477	5	195	29	2377	13	678	37	9120
21	Paper & Paper Products	5	340	2	110	3	82	0	0	10	532
23	Refined petroleum	10	2000	0	0	0	0	0	0	10	2000
24	Chemicals & Chemical Pdt's	27	7071	9	845	8	1570	3	385	31	9511
25	Rubber & Plastic Products	14	2408	5	1230	6	590	2	260	18	4704
26	Non-metallic mineral Products	13	2175	1	50	8	235	0	0	19	2460
27	Basic Metals	12	1020	5	725	6	717	1	50	22	2762
28	Metal products	37	4476	6	1248	13	2049	4	1487	45	7900
29	Machinery & Equipment	62	8162	19	1143	39	7577	11	585	86	17200
30	Office accounting & computing machinery	2	2000	1	300	1	250	1	300	2	2000
31	Electrical Machinery	30	4178	13	1245	24	2132	6	1078	42	7724
32	Radio, TV, Communication Equip. & Appliances	20	4486	7	1130	11	1430	0	0	26	7246
33	Medical, Precision, Optical Instruments, Watches	22	2044	2	13	3	22	3	612	23	2701
34	Motor Vehicles, Trailers & Semi-Trailers	37	12851	16	1855	16	1565	4	103	46	17192
35	Transport Equipments	8	1255	0	0	0	0	0	0	8	1255
36	Furniture, Jewellery, sports goods, toys & stationery	10	990	0	0	3	80	0	0	10	1070
101	Total	455	78748	140	14262	241	25546	82	8100	600	123571

Table 10 : Industrywise -Application of Technology

Technology used										
2 digit ind	Industry Name	Highly complex		Moderately complex		Low complexity		Do not know		Total
15	Food Products & Beverages	3	(7)	26	(63)	12	(29)	0	(0)	41 (100)
17	Textiles	9	(15)	11	(19)	27	(46)	12	(20)	59 (100)
18	Wearing Apparels	0	(0)	6	(33)	11	(61)	1	(6)	18 (100)
19	Leather Products	1	(4)	19	(70)	6	(22)	1	(4)	27 (100)
21	Paper & Paper Products	0	(0)	0	(0)	0	(0)	0	(0)	0 (0)
23	Refined petroleum	0	(0)	2	(20)	8	(80)	0	(0)	10 (100)
24	Chemicals & Chemical Pdts	2	(11)	8	(44)	8	(44)	0	(0)	18 (100)
25	Rubber & Plastic Products	1	(5)	3	(15)	16	(80)	0	(0)	20 (100)
26	Non-metallic mineral Products	0	(0)	13	(93)	1	(7)	0	(0)	14 (100)
27	Basic Metals	1	(4)	15	(54)	12	(43)	0	(0)	28 (100)
28	Metal products	4	(12)	13	(38)	16	(47)	1	(3)	34 (100)
29	Machinery & Equipment	11	(16)	41	(59)	15	(21)	3	(4)	70 (100)
30	Office accounting & computing machinery	0	(0)	2	(100)	0	(0)	0	(0)	2 (100)
31	Electrical Machinery	4	(11)	23	(64)	9	(25)	0	(0)	36 (100)
32	Radio, TV,Communication Equip. & Appliances	2	(8)	9	(38)	13	(54)	0	(0)	24 (100)
33	Medical, Precision, Optical Instruments, Watches	0	(0)	10	(83)	2	(17)	0	(0)	12 (100)
34	Motor Vehicles,Trailers & Semi-Trailers	6	(21)	11	(39)	7	(25)	4	(14)	28 (100)
35	Transport Equipments	8	(80)	2	(20)	0	(0)	0	(0)	10 (100)
36	Furniture,Jewellery,sports goods,toys & stationery	0	(0)	9	(90)	1	(10)	0	(0)	10 (100)
101	Total	52	(11)	223	(48)	164	(36)	22	(5)	461[#] (100)

*Figures in parenthesis indicate percentage of reporting units. # Number of total R&D units is less than 698 due to non-response by some units

2 digit Ind	Industry name	Units aware of government incentives	Units not aware of govt. incentives	Total
15	Food Products & Beverages	30 (45)	36 (55)	66 (100)
17	Textiles	41 (43)	54 (57)	95 (100)
18	Wearing Apparels	16 (70)	7 (30)	23 (100)
19	Leather Products	10 (33)	20 (67)	30 (100)
21	Paper & Paper Products	0 (0)	2 (100)	2 (100)
23	Refined petroleum	1 (10)	9 (90)	10 (100)
24	Chemicals & Chemical Pds	17 (55)	14 (45)	31 (100)
25	Rubber & Plastic Products	17 (63)	10 (37)	27 (100)
26	Non-metallic mineral Products	1 (5)	19 (95)	20 (100)
27	Basic Metals	16 (50)	16 (50)	32 (100)
28	Metal products	18 (35)	34 (65)	52 (100)
29	Machinery & Equipment	38 (42)	53 (58)	91 (100)
30	Office accounting & computing machinery	2 (100)	0 (0)	2 (100)
31	Electrical Machinery	23 (51)	22 (49)	45 (100)
32	Radio, TV,Communication Equip. & Appliances	19 (66)	10 (34)	29 (100)
33	Medical, Precision, Optical Instruments, Watches	1 (4)	23 (96)	24 (100)
34	Motor Vehicles,Trailers & Semi-Trailers	15 (34)	29 (66)	44 (100)
35	Transport Equipments	0 (0)	7 (100)	7 (100)
36	Furniture,Jewellery,sports goods,toys & stationery	1 (10)	9 (90)	10 (100)
101	Total	266 (42)	374 (58)	640# (100)

*Figures in parenthesis indicate percentage of reporting units.

Number of total R&D units is less than 698 due to non-response by some units.

2 digit Ind	Industry name	Units claimed tax exemption/ concession	Units not claimed tax exemption/concession	Total
15	Food Products & Beverages	23 (79)	6 (21)	29 (100)
17	Textiles	15 (58)	11 (42)	26 (100)
18	Wearing Apparels	0 (0)	14 (100)	14 (100)
19	Leather Products	3 (43)	4 (57)	7 (100)
23	Refined petroleum	0 (0)	1 (100)	1 (100)
24	Chemicals & Chemical Pds	3 (19)	13 (81)	16 (100)
25	Rubber & Plastic Products	6 (86)	1 (14)	7 (100)
26	Non-metallic mineral Products	0 (0)	1 (100)	1 (100)
27	Basic Metals	7 (50)	7 (50)	14 (100)
28	Metal products	6 (38)	10 (63)	16 (100)
29	Machinery & Equipment	11 (38)	18 (62)	29 (100)
30	Office accounting & computing machinery	1 (50)	1 (50)	2 (100)
31	Electrical Machinery	4 (19)	17 (81)	21 (100)
32	Radio, TV,Communication Equip. & Appliances	4 (44)	5 (56)	9 (100)
33	Medical, Precision, Optical Instruments, Watches	0 (0)	1 (100)	1 (100)
34	Motor Vehicles,Trailers & Semi-Trailers	3 (27)	8 (73)	11 (100)
36	Furniture,Jewellery,sports goods,toys & stationery	0 (0)	1 (100)	1 (100)
101	Total	86 (42)	119 (58)	205# (100)

*Figures in parenthesis indicate percentage of reporting units.

Number of total R&D units is less than 698 due to non-response by some units.

2 digit Ind	Industry name	Units received incentives/ measures	Units not received incentives/ measures	Total
15	Food Products & Beverages	9 (17)	45 (83)	54 (100)
17	Textiles	20 (22)	71 (78)	91 (100)
18	Wearing Apparels	3 (13)	20 (87)	23 (100)
19	Leather Products	1 (4)	26 (96)	27 (100)
21	Paper & Paper Products	0 (0)	2 (100)	2 (100)
23	Refined petroleum	0 (0)	8 (100)	8 (100)
24	Chemicals & Chemical Pdts	1 (3)	28 (97)	29 (100)
25	Rubber & Plastic Products	3 (13)	21 (88)	24 (100)
26	Non-metallic mineral Products	0 (0)	20 (100)	20 (100)
27	Basic Metals	0 (0)	29 (100)	29 (100)
28	Metal products	7 (15)	41 (85)	48 (100)
29	Machinery & Equipment	6 (7)	79 (93)	85 (100)
30	Office accounting & computing machinery	0 (0)	2 (100)	2 (100)
31	Electrical Machinery	4 (9)	40 (91)	44 (100)
32	Radio, TV,Communication Equip. & Appliances	0 (0)	24 (100)	24 (100)
33	Medical, Precision, Optical Instruments, Watches	0 (0)	23 (100)	23 (100)
34	Motor Vehicles,Trailers & Semi-Trailers	0 (0)	37 (100)	37 (100)
35	Transport Equipments	1 (50)	1 (50)	2 (100)
36	Furniture,Jewellery,sports goods,toys & stationery	0 (0)	10 (100)	10 (100)
101	Total	55 (9)	527 (91)	582[#] (100)

*Figures in parenthesis indicate percentage of reporting units.

Number of total R&D units is less than 698 due to non-response by some units.

2 digit Ind	Industry name	Units that said incentives were sufficient	Units that said incentives were insufficient	Total
15	Food Products & Beverages	1 (13)	7 (88)	8 (100)
17	Textiles	7 (47)	8 (53)	15 (100)
18	Wearing Apparels	0 (0)	3 (100)	3 (100)
19	Leather Products	0 (0)	1 (100)	1 (100)
24	Chemicals & Chemical Pdts	1 (100)	0 (0)	1 (100)
25	Rubber & Plastic Products	0 (0)	2 (100)	2 (100)
28	Metal products	5 (83)	1 (17)	6 (100)
29	Machinery & Equipment	0 (0)	3 (100)	3 (100)
31	Electrical Machinery	0 (0)	4 (100)	4 (100)
35	Transport Equipments	0 (0)	0 (0)	0 (0)
101	Total	14 (33)	29 (67)	43[#] (100)

*Figures in parenthesis indicate percentage of reporting units.

Number of total R&D units is less than 698 due to non-response by some units.

Table 13: Industrywise- Support Needed from the Government

2 digit Ind	Industry Name	Financial	Technological	Training	Infrastructure facilities	Reduction in bureaucracy	Others	Total
15	Food Products & Beverages	36 (27)	25 (19)	20 (15)	19 (15)	31 (24)	0 (0)	131 (100)
17	Textiles	76 (33)	32 (14)	35 (15)	41 (18)	39 (17)	6 (3)	229 (100)
18	Wearing Apparels	23 (32)	19 (27)	9 (13)	5 (7)	14 (20)	1 (1)	71 (100)
19	Leather Products	25 (28)	16 (18)	23 (26)	18 (20)	7 (8)	0 (0)	89 (100)
21	Paper & Paper Products	8 (35)	9 (39)	2 (9)	0 (0)	4 (17)	0 (0)	23 (100)
23	Refined petroleum	10 (27)	9 (24)	10 (27)	8 (22)	0 (0)	0 (0)	37 (100)
24	Chemicals & Chemical Pds	30 (32)	22 (24)	21 (23)	16 (17)	4 (4)	0 (0)	93 (100)
25	Rubber & Plastic Products	19 (20)	24 (25)	23 (24)	13 (13)	18 (19)	0 (0)	97 (100)
26	Non-metallic mineral Products	10 (27)	2 (5)	17 (46)	1 (3)	7 (19)	0 (0)	37 (100)
27	Basic Metals	13 (22)	12 (21)	11 (19)	8 (14)	12 (21)	2 (3)	58 (100)
28	Metal products	28 (23)	26 (21)	21 (17)	25 (21)	19 (16)	2 (2)	121 (100)
29	Machinery & Equipment	60 (27)	62 (27)	35 (15)	35 (15)	34 (15)	0 (0)	226 (100)
30	Office accounting & computing machinery	0 (0)	0 (0)	0 (0)	1 (33)	2 (67)	0 (0)	3 (100)
31	Electrical Machinery	30 (31)	22 (23)	8 (8)	16 (16)	18 (19)	3 (3)	97 (100)
32	Radio, TV,Communication Equip. & Appliances	17 (24)	15 (21)	16 (23)	10 (14)	9 (13)	3 (4)	70 (100)
33	Medical, Precision, Optical Instruments, Watches	20 (43)	11 (24)	3 (7)	2 (4)	9 (20)	1 (2)	46 (100)
34	Motor Vehicles, Trailers & Semi-Trailers	31 (25)	23 (18)	17 (14)	19 (15)	35 (28)	0 (0)	125 (100)
35	Transport Equipments	8 (30)	5 (19)	1 (4)	5 (19)	8 (30)	0 (0)	27 (100)
36	Furniture, Jewellery, sports goods, toys & stationery	9 (39)	5 (22)	8 (35)	0 (0)	0 (0)	1 (4)	23 (100)
101	Total	453 (28)	339 (21)	280 (17)	242 (15)	270 (17)	19 (1)	1603 [#] (100)

*Figures in parenthesis indicate percentage of reporting units. # Number of total R&D units exceeds 698 due to multiple response.

Table 14a: Industrywise-Membership Level of Industry Associations						
2 digit Ind	Industry name	Units that are members of industry associations		Units that are not members of industry associations		Total
15	Food Products & Beverages	48	(77)	14	(23)	62 (100)
17	Textiles	57	(73)	21	(27)	78 (100)
18	Wearing Apparels	21	(81)	5	(19)	26 (100)
19	Leather Products	14	(54)	12	(46)	26 (100)
21	Paper & Paper Products	3	(43)	4	(57)	7 (100)
23	Refined petroleum	1	(11)	8	(89)	9 (100)
24	Chemicals & Chemical Pdts	25	(78)	7	(22)	32 (100)
25	Rubber & Plastic Products	14	(74)	5	(26)	19 (100)
26	Non-metallic mineral Products	1	(5)	19	(95)	20 (100)
27	Basic Metals	15	(71)	6	(29)	21 (100)
28	Metal products	36	(82)	8	(18)	44 (100)
29	Machinery & Equipment	58	(68)	27	(32)	85 (100)
30	Office accounting & computing machinery	1	(100)	0	(0)	1 (100)
31	Electrical Machinery	19	(51)	18	(49)	37 (100)
32	Radio, TV,Communication Equip. & Appliances	21	(88)	3	(13)	24 (100)
33	Medical, Precision, Optical Instruments, Watches	14	(61)	9	(39)	23 (100)
34	Motor Vehicles,Trailers & Semi-Trailers	38	(81)	9	(19)	47 (100)
35	Transport Equipments	3	(75)	1	(25)	4 (100)
36	Furniture,Jewellery,sports goods,toys & stationery	1	(10)	9	(90)	10 (100)
101	Total	390	(68)	185	(32)	575[#] (100)

*Figures in parenthesis indicate percentage of reporting units.

Number of total R&D units is less than 698 due to non-response by some units

Table 14b: Industrywise- Support recieved for R&D from institutions like CII, Chambers of Commerce, Collges, Universities, Local authorities and Industry association

2 digit Ind.	Industry Name	Yes	No	No response	Total
15	Food Products & Beverages	15 (22)	46 (69)	6 (9)	67 (100)
17	Textiles	16 (15)	67 (63)	23 (22)	106 (100)
18	Wearing Apparels	0 (0)	26 (87)	4 (13)	30 (100)
19	Leather Products	2 (5)	26 (65)	12 (30)	40 (100)
21	Paper & Paper Products	0 (0)	0 (0)	10 (100)	10 (100)
23	Refined petroleum	0 (0)	10 (100)	0 (0)	10 (100)
24	Chemicals & Chemical Pdts	8 (25)	22 (69)	2 (6)	32 (100)
25	Rubber & Plastic Products	4 (13)	22 (73)	4 (13)	30 (100)
26	Non-metallic mineral Products	0 (0)	20 (100)	0 (0)	20 (100)
27	Basic Metals	4 (13)	23 (72)	5 (16)	32 (100)
28	Metal products	11 (19)	42 (74)	4 (7)	57 (100)
29	Machinery & Equipment	9 (10)	81 (86)	4 (4)	94 (100)
30	Office accounting & computing machinery	1 (50)	1 (50)	0 (0)	2 (100)
31	Electrical Machinery	4 (9)	36 (80)	5 (11)	45 (100)
32	Radió, TV,Communication Equip. & Appliances	3 (10)	26 (90)	0 (0)	29 (100)
33	Medical, Precision, Optical Instruments, Watches	1 (4)	23 (96)	0 (0)	24 (100)
34	Motor Vehicles,Trailers & Semi-Trailers	2 (4)	39 (78)	9 (18)	50 (100)
35	Transport Equipments	0 (0)	6 (60)	4 (40)	10 (100)
36	Furniture,Jewellery,sports goods,toys & stationery	0 (0)	9 (90)	1 (10)	10 (100)
101	Total	80 (11)	525 (75)	93 (13)	698 (100)

*Figures in parenthesis indicate percentage of reporting units.

Table 14c: Industrywise- Nature of Support received for R&D from institutions like CII, Chambers of Commerce, Colleges, Universities, Local authorities and Industry associations											
2 digit ind.	Industry Name	Official visiting	In-house units	Training	Quality control	Technical Advice	Technical pack up	To get guide line for increase industrial activities	Good helping nature	Others	Total
15	Food Products & Beverages	2 (14)	0 (0)	1 (7)	1 (7)	3 (21)	0 (0)	0 (0)	0 (0)	7 (50)	14 (100)
17	Textiles	0 (0)	0 (0)	0 (0)	0 (0)	3 (30)	2 (20)	0 (0)	0 (0)	5 (50)	10 (100)
19	Leather Products	1 (50)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (50)	2 (100)
24	Chemicals & Chemical Pdis	0 (0)	0 (0)	0 (0)	0 (0)	1 (17)	0 (0)	0 (0)	0 (0)	5 (83)	6 (100)
25	Rubber & Plastic Products	0 (0)	0 (0)	0 (0)	1 (25)	0 (0)	0 (0)	0 (0)	0 (0)	3 (75)	4 (100)
27	Basic Metals	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (67)	0 (0)	1 (33)	3 (100)
28	Metal products	6 (50)	0 (0)	3 (25)	0 (0)	0 (0)	0 (0)	0 (0)	1 (8)	2 (17)	12 (100)
29	Machinery & Equipment	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	5 (100)	5 (100)
30	Office accounting & computing machinery	0 (0)	0 (0)	1 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (100)
31	Electrical Machinery	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	4 (100)	4 (100)
32	Radio, TV, Communication Equip. & Appliances	0 (0)	0 (0)	0 (0)	0 (0)	1 (100)	0 (0)	0 (0)	0 (0)	0 (0)	1 (100)
33	Medical, Precision, Optical Instruments, Watches	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (100)	0 (0)	0 (0)	1 (100)
34	Motor Vehicles, Trailers & Semi-Trailers	0 (0)	0 (0)	0 (0)	0 (0)	1 (33)	0 (0)	0 (0)	0 (0)	2 (67)	3 (100)
101	Total	9 (14)	0 (0)	5 (8)	2 (3)	9 (14)	2 (3)	3 (5)	1 (2)	35 (53)	66 (100)

*Figures in parenthesis indicate percentage of reporting units. # Number of units excluding the non-response.

Table 15: Industrywise- Rating of Local Associations for Providing Help in R&D

2 digit Ind	Industry name	Pro-active	Moderately active	Inactive	Others	Total
15	Food Products & Beverages	7 (12)	31 (52)	22 (37)	0 (0)	60 (100)
17	Textiles	5 (5)	28 (28)	65 (64)	3 (3)	101 (100)
18	Wearing Apparels	0 (0)	8 (27)	22 (73)	0 (0)	30 (100)
19	Leather Products	3 (8)	11 (31)	21 (58)	1 (3)	36 (100)
21	Paper & Paper Products	0 (0)	0 (0)	9 (100)	0 (0)	9 (100)
23	Refined petroleum	0 (0)	9 (90)	1 (10)	0 (0)	10 (100)
24	Chemicals & Chemical Pdts	0 (0)	18 (58)	13 (42)	0 (0)	31 (100)
25	Rubber & Plastic Products	0 (0)	15 (50)	15 (50)	0 (0)	30 (100)
26	Non-metallic mineral Products	1 (6)	13 (76)	3 (18)	0 (0)	17 (100)
27	Basic Metals	1 (3)	16 (55)	11 (38)	1 (3)	29 (100)
28	Metal products	12 (22)	27 (49)	15 (27)	1 (2)	55 (100)
29	Machinery & Equipment	5 (6)	34 (40)	46 (53)	1 (1)	86 (100)
30	Office accounting & computing machinery	0 (0)	0 (0)	2 (100)	0 (0)	2 (100)
31	Electrical Machinery	0 (0)	16 (37)	23 (53)	4 (9)	43 (100)
32	Radio, TV,Communication Equip. & Appliances	1 (3)	13 (45)	14 (48)	1 (3)	29 (100)
33	Medical, Precision, Optical Instruments, Watches	0 (0)	3 (13)	21 (88)	0 (0)	24 (100)
34	Motor Vehicles,Trailers & Semi-Trailers	4 (8)	22 (46)	22 (46)	0 (0)	48 (100)
35	Transport Equipments	5 (50)	4 (40)	1 (10)	0 (0)	10 (100)
36	Furniture,Jewellery,sports goods,toys & stationery	0 (0)	6 (60)	3 (30)	1 (10)	10 (100)
101	Total	44 (7)	274 (42)	329 (50)	13 (2)	660[#] (100)

*Figures in parenthesis indicate percentage of reporting units. # Number of total R&D units is less than 698 due to non-response by some units

Table 16: Industrywise- Opinion on Regional Priority by Local Associations							
2 digit Ind	Industry name	Yes		No		Total	
15	Food Products & Beverages	21	(36)	37	(64)	58	(100)
17	Textiles	11	(18)	51	(82)	62	(100)
18	Wearing Apparels	2	(15)	11	(85)	13	(100)
19	Leather Products	7	(29)	17	(71)	24	(100)
21	Paper & Paper Products	0	(0)	0	(0)	0	(0)
23	Refined petroleum	0	(0)	9	(100)	9	(100)
24	Chemicals & Chemical Pdts	1	(4)	26	(96)	27	(100)
25	Rubber & Plastic Products	4	(16)	21	(84)	25	(100)
26	Non-metallic mineral Products	3	(19)	13	(81)	16	(100)
27	Basic Metals	11	(41)	16	(59)	27	(100)
28	Metal products	15	(30)	35	(70)	50	(100)
29	Machinery & Equipment	7	(10)	64	(90)	71	(100)
30	Office accounting & computing machinery	0	(0)	0	(0)	0	(0)
31	Electrical Machinery	4	(12)	30	(88)	34	(100)
32	Radio, TV,Communication Equip. & Appliances	0	(0)	15	(100)	15	(100)
33	Medical, Precision, Optical Instruments, Watches	2	(9)	21	(91)	23	(100)
34	Motor Vehicles,Trailers & Semi-Trailers	11	(28)	28	(72)	39	(100)
35	Transport Equipments	7	(78)	2	(22)	9	(100)
36	Furniture,Jewellery,sports goods,toys & stationery	0	(0)	7	(100)	7	(100)
101	Total	106	(21)	403	(79)	509[#]	(100)

*Figures in parenthesis indicate percentage of reporting units.

Number of total R&D units is less than 698 due to non-response by some units

Table 17a: Industrywise- Incentives Received from DSIR									
2 digit Ind.	Industry Name	Yes		No		Not aware		Total	
15	Food Products & Beverages	5	(7)	44	(66)	18	(27)	67	(100)
17	Textiles	3	(3)	59	(56)	44	(42)	106	(100)
18	Wearing Apparels	0	(0)	8	(27)	22	(73)	30	(100)
19	Leather Products	1	(3)	27	(68)	12	(30)	40	(100)
21	Paper & Paper Products	0	(0)	0	(0)	10	(100)	10	(100)
23	Refined petroleum	0	(0)	1	(10)	9	(90)	10	(100)
24	Chemicals & Chemical Pdts	1	(3)	18	(56)	13	(41)	32	(100)
25	Rubber & Plastic Products	0	(0)	10	(33)	20	(67)	30	(100)
26	Non-metallic mineral Products	0	(0)	16	(80)	4	(20)	20	(100)
27	Basic Metals	1	(3)	27	(84)	4	(13)	32	(100)
28	Metal products	1	(2)	33	(58)	23	(40)	57	(100)
29	Machinery & Equipment	2	(2)	66	(70)	26	(28)	94	(100)
30	Office accounting & computing machinery	1	(50)	1	(50)	0	(0)	2	(100)
31	Electrical Machinery	3	(7)	32	(71)	10	(22)	45	(100)
32	Radio, TV,Communication Equip. & Appliances	0	(0)	14	(48)	15	(52)	29	(100)
33	Medical, Precision, Optical Instruments, Watches	1	(4)	11	(46)	12	(50)	24	(100)
34	Motor Vehicles,Trailers & Semi-Trailers	0	(0)	37	(74)	13	(26)	50	(100)
35	Transport Equipments	0	(0)	2	(20)	8	(80)	10	(100)
36	Furniture,Jewellery,sports goods,toys & stationery	0	(0)	3	(30)	7	(70)	10	(100)
101	Total	19	(3)	409	(59)	270	(39)	698	(100)

*Figures in parenthesis indicate percentage of reporting units.

Table17b: Industrywise- Forms in which Incentives were received from DSIR

2 digit Ind.	Industry Name	Technical Advice	Technological setup	Quality management	Others	No response	Total
15	Food Products & Beverages	2 (20)	1 (10)	1 (10)	1 (10)	5 (50)	10 (100)
17	Textiles	1 (17)	0 (0)	0 (0)	2 (33)	3 (50)	6 (100)
19	Leather Products	0 (0)	0 (0)	0 (0)	0 (0)	2 (100)	2 (100)
24	Chemicals & Chemical Pds	0 (0)	0 (0)	0 (0)	1 (50)	1 (50)	2 (100)
27	Basic Metals	0 (0)	0 (0)	0 (0)	0 (0)	2 (100)	2 (100)
28	Metal products	0 (0)	1 (50)	0 (0)	0 (0)	1 (50)	2 (100)
29	Machinery & Equipment	0 (0)	0 (0)	0 (0)	1 (25)	3 (75)	4 (100)
30	Office accounting & computing machinery	0 (0)	0 (0)	0 (0)	1 (50)	1 (50)	2 (100)
31	Electrical Machinery	0 (0)	0 (0)	0 (0)	3 (50)	3 (50)	6 (100)
33	Medical, Precision, Optical Instruments, Watches	0 (0)	0 (0)	0 (0)	0 (0)	2 (100)	2 (100)
101	Total	3 (8)	2 (5)	1 (3)	9 (24)	23 (61)	38 (100)

*Figures in parenthesis indicate percentage of reporting units.

Table 17c: Industrywise- Suggestions for improving incentives received from DSIR

2 digit Ind.	Industry Name	The programme should reach the end user	Govt. Should establish more R&D institutions	Process should be simplified	Incentives should be distributed across all the	Improve awareness about the incentives	DSIR must work more towards transfer of technology	Regular newsletters be circulated	Simplify official procedure/ reduce bureaucracy	Should provide training/seminar	Should provide financial support for R&D	Others	Can't say	Total
15	Food Products & Beverages	1 (3)	0 (0)	1 (3)	4 (11)	4 (11)	5 (14)	1 (3)	2 (6)	0 (0)	3 (8)	4 (11)	11 (31)	36 (100)
17	Textiles	1 (3)	4 (13)	0 (0)	0 (0)	1 (3)	6 (19)	0 (0)	0 (0)	7 (23)	5 (16)	6 (19)	1 (3)	31 (100)
19	Leather Products	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	1 (10)	0 (0)	1 (10)	0 (0)	1 (10)	5 (50)	1 (10)	10 (100)
24	Chemicals & Chemical Pdt	0 (0)	0 (0)	0 (0)	1 (11)	0 (0)	0 (0)	0 (0)	1 (11)	0 (0)	0 (0)	7 (78)	0 (0)	9 (100)
25	Rubber & Plastic Products	0 (0)	0 (0)	1 (50)	0 (0)	1 (50)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (100)
26	Non-metallic mineral Products	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	8 (100)
27	Basic Metals	0 (0)	0 (0)	2 (11)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	13 (68)	3 (16)	19 (100)
28	Metal products	0 (0)	1 (6)	0 (0)	0 (0)	1 (6)	0 (0)	1 (6)	0 (0)	2 (11)	1 (6)	10 (56)	2 (11)	18 (100)
29	Machinery & Equipment	0 (0)	3 (6)	0 (0)	1 (2)	2 (4)	8 (15)	1 (2)	1 (2)	6 (11)	4 (8)	17 (32)	10 (19)	53 (100)
30	Office accounting & computing machinery	0 (0)	1 (50)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (50)	0 (0)	2 (100)
31	Electrical Machinery	1 (5)	0 (0)	2 (10)	0 (0)	1 (5)	3 (15)	1 (5)	0 (0)	1 (5)	3 (15)	6 (30)	2 (10)	20 (100)
32	Radio, TV, Communication Equip. & Appliances	0 (0)	1 (11)	0 (0)	0 (0)	0 (0)	1 (11)	1 (11)	2 (22)	0 (0)	1 (11)	3 (33)	0 (0)	9 (100)
33	Medical, Precision, Optical Instruments, Watches	0 (0)	1 (25)	0 (0)	2 (50)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (25)	4 (100)
34	Motor Vehicles, Trailers & Semi-Trailers	0 (0)	1 (9)	4 (36)	0 (0)	2 (18)	0 (0)	1 (9)	1 (9)	0 (0)	0 (0)	1 (9)	1 (9)	11 (100)
36	Furniture, Jewellery, sports goods, toys & stationery	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (100)	3 (100)
101	Total	3 (1)	12 (5)	10 (4)	8 (3)	14 (6)	24 (10)	6 (3)	8 (3)	16 (7)	18 (8)	73 (31)	43 (18)	235* (100)

*Figures in parenthesis indicate percentage of reporting units. # Number of units excluding the non-response.

Table 18: Industrywise - Threat of Globalisation						
2 digit Ind	Industry name	Number of units threatened by globalisation		Number of units not threatened by globalisation		Total
15	Food Products & Beverages	17	(29)	42	(71)	59 (100)
17	Textiles	25	(26)	70	(74)	95 (100)
18	Wearing Apparels	9	(35)	17	(65)	26 (100)
19	Leather Products	4	(11)	31	(89)	35 (100)
21	Paper & Paper Products	7	(70)	3	(30)	10 (100)
23	Refined petroleum	0	(0)	10	(100)	10 (100)
24	Chemicals & Chemical Pds	4	(14)	24	(86)	28 (100)
25	Rubber & Plastic Products	9	(30)	21	(70)	30 (100)
26	Non-metallic mineral Products	0	(0)	20	(100)	20 (100)
27	Basic Metals	10	(34)	19	(66)	29 (100)
28	Metal products	14	(26)	40	(74)	54 (100)
29	Machinery & Equipment	26	(28)	67	(72)	93 (100)
30	Office accounting & computing machinery	0	(0)	2	(100)	2 (100)
31	Electrical Machinery	16	(37)	27	(63)	43 (100)
32	Radio, TV, Communication Equip. & Appliances	13	(46)	15	(54)	28 (100)
33	Medical, Precision, Optical Instruments, Watches	8	(33)	16	(67)	24 (100)
34	Motor Vehicles, Trailers & Semi-Trailers	12	(24)	38	(76)	50 (100)
35	Transport Equipments	0	(0)	10	(100)	10 (100)
36	Furniture, Jewellery, sports goods, toys & stationery	0	(0)	10	(100)	10 (100)
101	Total	174	(27)	482	(73)	656# (100)

*Figures in parenthesis indicate percentage of reporting units.

Number of total R&D units is less than 698 due to non-response by some units

Table 19: Industrywise - Nature of Threat Due to Globalisation												
2 digit Ind	Industry Name	Lesser profit	Pressure to cut price	Loss of market/market share	Greater competition from MNC's	Greater domestic competition among small companies	Dumping	Uneven competition	Change in consumer preference	Withdrawal of govt. incentives	New technology	Total
15	Food Products & Beverages	2 (7)	0 (0)	5 (17)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	7 (23)	16 (53)	30 (100)
17	Textiles	0 (0)	1 (2)	16 (33)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	7 (15)	22 (46)	48 (100)
18	Wearing Apparels	1 (6)	0 (0)	3 (17)	0 (0)	0 (0)	0 (0)	1 (6)	1 (6)	4 (22)	8 (44)	18 (100)
19	Leather Products	0 (0)	0 (0)	3 (38)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	5 (63)	8 (100)
21	Paper & Paper Products	0 (0)	0 (0)	4 (29)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (21)	7 (50)	14 (100)
24	Chemicals & Chemical Pdis	0 (0)	2 (25)	1 (13)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	5 (63)	8 (100)
25	Rubber & Plastic Products	1 (6)	1 (6)	2 (13)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	4 (25)	7 (44)	16 (100)
27	Basic Metals	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	5 (26)	12 (63)	19 (100)
28	Metal products	1 (4)	1 (4)	4 (14)	0 (0)	0 (0)	3 (11)	0 (0)	0 (0)	4 (14)	15 (54)	28 (100)
29	Machinery & Equipment	0 (0)	0 (0)	5 (10)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	12 (24)	32 (63)	51 (100)
31	Office accounting & computing machinery	1 (3)	0 (0)	4 (13)	0 (0)	1 (3)	4 (13)	0 (0)	0 (0)	6 (19)	16 (50)	32 (100)
32	Radio, TV, Communication Equip. & Appliances	1 (4)	0 (0)	1 (4)	0 (0)	1 (4)	1 (4)	0 (0)	0 (0)	6 (24)	15 (60)	25 (100)
33	Medical, Precision, Optical Instruments, Watches	0 (0)	1 (8)	3 (25)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	8 (67)	12 (100)
34	Motor Vehicles, Trailers & Semi-Trailers	1 (4)	0 (0)	1 (4)	2 (8)	0 (0)	2 (8)	0 (0)	0 (0)	4 (17)	14 (58)	24 (100)
101	Total	8 (2)	6 (2)	53 (16)	4 (1)	4 (1)	12 (4)	1 (0)	1 (0)	62 (19)	182 (55)	333# (100)

*Figures in parenthesis indicate percentage of reporting units. # Number of total R&D units is less than 698 due to non-response by some units

2 digit Ind	Industry name	Globalisation has offered opportunity to units	Globalisation has not offered any kind of opportunity to the units	Total
15	Food Products & Beverages	16 (27)	44 (73)	60 (100)
17	Textiles	34 (37)	58 (63)	92 (100)
18	Wearing Apparels	11 (39)	17 (61)	28 (100)
19	Leather Products	13 (37)	22 (63)	35 (100)
21	Paper & Paper Products	2 (0)	6 (0)	8 (0)
23	Refined petroleum	10 (100)	0 (0)	10 (100)
24	Chemicals & Chemical Pdts	10 (36)	18 (64)	28 (100)
25	Rubber & Plastic Products	3 (10)	27 (90)	30 (100)
26	Non-metallic mineral Products	0 (0)	20 (100)	20 (100)
27	Basic Metals	1 (3)	29 (97)	30 (100)
28	Metal products	4 (8)	48 (92)	52 (100)
29	Machinery & Equipment	14 (15)	77 (85)	91 (100)
30	Office accounting & computing machinery	1 (50)	1 (50)	2 (100)
31	Electrical Machinery	13 (29)	32 (71)	45 (100)
32	Radio, TV,Communication Equip. & Appliances	11 (41)	16 (59)	27 (100)
33	Medical, Precision, Optical Instruments, Watches	3 (13)	20 (87)	23 (100)
34	Motor Vehicles,Trailers & Semi-Trailers	5 (11)	42 (89)	47 (100)
35	Transport Equipments	0 (0)	10 (100)	10 (100)
36	Furniture,Jewellery,sports goods,toys & stationery	1 (10)	9 (90)	10 (100)
101	Total	152 (23)	496 (77)	648[#] (100)

*Figures in parenthesis indicate percentage of reporting units.

Number of total R&D units is less than 698 due to non-response by some units

Table 21: Nature of Opportunities Offered by Globalisation

2 digit Ind	Industry name	New sources of raw materials	Access to global markets	Boost to innovation and quality improvement	Exposure to international trends and technologies	Cheaper raw materials	Total
15	Food Products & Beverages	5 (31)	3 (19)	2 (13)	0 (0)	6 (38)	16 (100)
17	Textiles	13 (39)	8 (24)	0 (0)	0 (0)	12 (36)	33 (100)
18	Wearing Apparels	5 (45)	3 (27)	0 (0)	1 (9)	2 (18)	11 (100)
19	Leather Products	8 (57)	2 (14)	2 (14)	0 (0)	2 (14)	14 (100)
21	Paper & Paper Products	0 (0)	0 (0)	1 (50)	0 (0)	1 (50)	2 (100)
23	Refined petroleum	2 (18)	0 (0)	0 (0)	0 (0)	9 (82)	11 (100)
24	Chemicals & Chemical Pds	6 (50)	1 (8)	3 (25)	0 (0)	2 (17)	12 (100)
25	Rubber & Plastic Products	0 (0)	0 (0)	0 (0)	0 (0)	3 (100)	3 (100)
27	Basic Metals	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
28	Metal products	3 (60)	0 (0)	0 (0)	0 (0)	2 (40)	5 (100)
29	Machinery & Equipment	4 (25)	3 (19)	0 (0)	1 (6)	8 (50)	16 (100)
30	Office accounting & computing machinery	0 (0)	0 (0)	0 (0)	0 (0)	1 (100)	1 (100)
31	Electrical Machinery	3 (21)	4 (29)	1 (7)	3 (21)	3 (21)	14 (100)
32	Radio, TV, Communication Equip. & Appliances	8 (62)	2 (15)	0 (0)	0 (0)	3 (23)	13 (100)
33	Medical, Precision, Optical Instruments, Watches	2 (67)	0 (0)	0 (0)	0 (0)	1 (33)	3 (100)
34	Motor Vehicles, Trailers & Semi-Trailers	1 (25)	1 (25)	1 (25)	0 (0)	1 (25)	4 (100)
36	Furniture, Jewellery, sports goods, toys & stationery	0 (0)	0 (0)	0 (0)	0 (0)	1 (100)	1 (100)
101	Total	60 (38)	27 (17)	10 (6)	5 (3)	57 (36)	159[#] (100)

*Figures in parenthesis indicate percentage of reporting units. # Number of total R&D units is less than 698 due to non-response by some units

Table 22: Industrywise - Important Factors that can Boost R&D Activities																		
2 digit Ind	Industry Name	Adequate finance/ soft loans	Proper infrastructure facility	Stiff competition	Technical guidance and training by gov. institutions	Greater dissemination & flow of technological information to end user	Tax Incentive	More R&D institutions & testing laboratories funded by gov.	Creativity of the employee	Internal environment of the organisation	Formal training of the employees	Greater interaction between the customers & manufacturers	Better enforcement of IPR	Improvement in labour laws	Removal of unnecessary hindrances put by the gov.	Technology parts	Quality Improvement	Total
15	Food Products & Beverages	6 (11)	9 (17)	11 (20)	0 (0)	6 (11)	4 (7)	0 (0)	0 (0)	2 (0)	0 (0)	1 (2)	0 (0)	1 (0)	0 (0)	2 (4)	12 (22)	54 (100)
17	Textiles	19 (18)	2 (2)	27 (26)	2 (2)	11 (11)	2 (2)	0 (0)	2 (2)	10 (4)	4 (4)	4 (4)	4 (4)	2 (0)	1 (1)	12 (12)	1 (1)	103 (100)
18	Wearing Apparels	4 (12)	0 (0)	15 (45)	4 (12)	0 (0)	3 (9)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (3)	3 (9)	2 (6)	0 (0)	33 (100)
19	Leather Products	6 (21)	3 (10)	13 (45)	1 (3)	0 (0)	1 (3)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	2 (7)	1 (3)	29 (100)
21	Paper & Paper Products	0 (0)	0 (0)	5 (50)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	1 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (30)	0 (0)	10 (100)
23	Refined petroleum	2 (25)	0 (0)	4 (50)	1 (13)	1 (13)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	8 (100)
24	Chemicals & Chemical Pdt	1 (5)	0 (0)	11 (50)	1 (5)	0 (0)	2 (9)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	1 (5)	0 (0)	0 (0)	5 (23)	0 (0)	22 (100)
25	Rubber & Plastic Products	0 (0)	4 (21)	8 (42)	0 (0)	1 (5)	1 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (0)	0 (0)	1 (5)	3 (16)	19 (100)
26	Non-metallic mineral Products	0 (0)	0 (0)	4 (67)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	6 (100)
27	Basic Metals	3 (13)	0 (0)	6 (25)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	9 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	4 (17)	0 (0)	24 (100)
28	Metal products	2 (5)	6 (14)	9 (21)	1 (2)	1 (2)	5 (12)	0 (0)	3 (7)	5 (0)	0 (0)	0 (0)	1 (2)	2 (0)	2 (5)	2 (5)	4 (9)	43 (100)
29	Machinery & Equipment	9 (13)	2 (3)	29 (42)	2 (3)	2 (3)	7 (10)	0 (0)	0 (0)	4 (0)	0 (0)	0 (0)	0 (0)	0 (0)	5 (7)	7 (10)	2 (3)	69 (100)
30	Office accounting & computing machinery	2 (67)	0 (0)	0 (0)	0 (0)	1 (33)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (100)
31	Electrical Machinery	5 (15)	6 (18)	2 (6)	3 (9)	4 (12)	2 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	5 (15)	6 (18)	34 (100)
32	Radio, TV, Communication Equip. & Appliances	2 (9)	0 (0)	14 (64)	1 (5)	0 (0)	2 (9)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (14)	0 (0)	22 (100)
33	Medical, Precision, Optical Instruments, Watches	0 (0)	2 (10)	2 (10)	0 (0)	2 (10)	1 (5)	4 (20)	0 (0)	0 (0)	0 (0)	0 (0)	3 (15)	0 (20)	0 (0)	1 (5)	5 (25)	20 (100)
34	Motor Vehicles, Trailers & Semi-Trailers	0 (0)	6 (18)	4 (12)	5 (15)	1 (3)	1 (3)	0 (0)	0 (0)	1 (3)	1 (3)	0 (0)	0 (0)	1 (0)	7 (21)	5 (15)	2 (6)	34 (100)
35	Transport Equipments	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (100)
36	Furniture, Jewellery, sports goods, toys & stationery	0 (0)	0 (0)	2 (50)	1 (25)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (25)	0 (0)	4 (100)
101	Total	61 (11)	40 (7)	166 (31)	22 (4)	30 (6)	31 (6)	6 (1)	6 (1)	34 (6)	6 (1)	5 (1)	12 (2)	8 (1)	19 (4)	55 (10)	36 (7)	537 (100)

*Figures in parenthesis indicate percentage of reporting units. # Number of total R&D units is less than 698 due to non-response by some units

Table 23: Industrywise- Major Impediments in Carrying out R&D Activities

2 digit Ind	Industry Name	Lack of finance/funds	Lack of Technological know-how	Lack of awareness	Absence of proper infrastructure	Lack of technical manpower	High cost	Non-availability of standard testing facilities	Low retention rate of R&D manpower	Red tapism & bureaucracy	Harassment by tax department	Lack of interaction between R&D institutions and the industry	Theft of design material	Poor quality of raw material	More investment	High taxes	Total
15	Food Products & Beverages	15 (15)	7 (7)	10 (10)	5 (5)	2 (2)	1 (1)	0 (0)	6 (6)	0 (0)	2 (2)	0 (0)	18 (18)	0 (0)	1 (1)	33 (33)	100 (100)
17	Textiles	17 (10)	9 (5)	22 (13)	12 (7)	1 (1)	1 (1)	4 (2)	9 (5)	3 (2)	1 (1)	2 (1)	27 (16)	0 (0)	0 (0)	58 (35)	166 (100)
18	Wearing Apparels	0 (0)	13 (29)	6 (13)	0 (0)	1 (2)	1 (2)	0 (0)	6 (13)	0 (0)	0 (0)	0 (0)	6 (13)	0 (0)	0 (0)	12 (27)	45 (100)
19	Leather Products	7 (10)	5 (7)	2 (3)	1 (1)	2 (3)	1 (1)	1 (1)	3 (4)	0 (0)	0 (0)	0 (0)	8 (12)	1 (1)	0 (0)	37 (54)	68 (100)
21	Paper & Paper Products	3 (27)	5 (45)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (9)	0 (0)	0 (0)	2 (18)	11 (100)
23	Refined petroleum	0 (0)	8 (73)	1 (9)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (9)	0 (0)	0 (0)	1 (9)	11 (100)
24	Chemicals & Chemical Pds	4 (8)	10 (20)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	7 (14)	0 (0)	0 (0)	23 (47)	49 (100)
25	Rubber & Plastic Products	0 (0)	10 (21)	0 (0)	0 (0)	2 (4)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	4 (9)	0 (0)	0 (0)	30 (64)	47 (100)
26	Non-metallic mineral Products	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	29 (97)	30 (100)
27	Basic Metals	2 (4)	2 (4)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	5 (10)	0 (0)	1 (2)	0 (0)	10 (20)	0 (0)	3 (6)	26 (52)	50 (100)
28	Metal products	7 (8)	11 (12)	13 (14)	7 (8)	0 (0)	1 (1)	0 (0)	4 (4)	0 (0)	1 (1)	0 (0)	8 (9)	1 (1)	1 (1)	36 (40)	90 (100)
29	Machinery & Equipment	14 (10)	18 (12)	23 (16)	3 (2)	5 (3)	3 (2)	1 (1)	13 (9)	1 (1)	0 (0)	0 (0)	17 (12)	1 (1)	4 (3)	42 (29)	145 (100)
30	Office accounting & computing machinery	0 (0)	0 (0)	0 (0)	2 (50)	1 (25)	0 (0)	1 (25)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	4 (100)
31	Electrical Machinery	2 (3)	5 (6)	5 (6)	2 (3)	1 (1)	1 (1)	0 (0)	3 (4)	0 (0)	0 (0)	0 (0)	19 (24)	0 (0)	2 (3)	38 (49)	78 (100)
32	Radio, TV, Communication Equip. & Appliances	2 (5)	10 (23)	4 (9)	1 (2)	1 (2)	1 (2)	1 (2)	2 (5)	2 (5)	1 (2)	0 (0)	3 (7)	0 (0)	0 (0)	16 (36)	44 (100)
33	Medical, Precision, Optical Instruments, Watches	7 (23)	1 (3)	3 (10)	1 (3)	2 (6)	1 (3)	0 (0)	1 (3)	1 (3)	0 (0)	0 (0)	4 (13)	0 (0)	3 (10)	7 (23)	31 (100)
34	Motor Vehicles, Trailers & Semi-Trailers	4 (4)	5 (6)	8 (9)	3 (3)	3 (3)	0 (0)	0 (0)	4 (4)	0 (0)	1 (1)	0 (0)	7 (8)	1 (1)	0 (0)	53 (60)	89 (100)
35	Transport Equipments	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	19 (100)	19 (100)
36	Furniture, Jewellery, sports goods, toys & stationery	0 (0)	3 (19)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	11 (69)	16 (100)
101	Total	84 (8)	122 (11)	100 (9)	38 (3)	21 (2)	12 (1)	8 (1)	59 (5)	7 (1)	7 (1)	2 (0)	142 (13)	4 (0)	14 (1)	473 (43)	1093* (100)

*Figures in parenthesis indicate percentage of reporting units. # Number of total R&D units exceeds 698 due to multiple response.

Table 24: Industrywise- Future Vision for R&D

2 digit Ind	Industry Name	Good/bright/excellent	Not good	Necessary for survival	Necessary for growth	Will revolve around modern designs	Will enable to meet international standards	Requirement of regional R&D centres set up by govt.	Will have mostly export oriented sections	R&D will determine the market share	Will improve quality & reduce price	Will help in expansion/diversification of units	Govt. will have to take the lead in R&D and disseminating it to others	Will increase efficiency	Total
15	Food Products & Beverages	4 (11)	13 (35)	3 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	5 (14)	0 (0)	1 (3)	0 (0)	11 (30)	37 (100)
17	Textiles	3 (6)	3 (6)	2 (4)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	2 (4)	0 (0)	34 (69)	49 (100)
18	Wearing Apparels	0 (0)	0 (0)	2 (9)	1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	7 (30)	4 (17)	0 (0)	1 (4)	8 (35)	23 (100)
19	Leather Products	0 (0)	1 (9)	3 (27)	1 (9)	1 (9)	1 (9)	1 (9)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (27)	11 (100)
21	Paper & Paper Products	0 (0)	1 (14)	6 (66)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	7 (0)
23	Refined petroleum	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	10 (100)
24	Chemicals & Chemical Pdis	0 (0)	1 (6)	5 (29)	0 (0)	0 (0)	0 (0)	0 (0)	3 (18)	1 (6)	2 (12)	0 (0)	0 (0)	5 (29)	17 (100)
25	Rubber & Plastic Products	0 (0)	0 (0)	4 (33)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	8 (67)	12 (100)
26	Rubber & Plastic Products	0 (0)	0 (0)	4 (31)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (23)	0 (0)	0 (0)	0 (0)	6 (46)	13 (0)
27	Non-metallic mineral Products	0 (0)	1 (13)	1 (13)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	2 (25)	3 (38)	8 (100)
28	Basic Metals	1 (2)	2 (5)	3 (7)	3 (7)	0 (0)	1 (2)	0 (0)	0 (0)	8 (19)	2 (5)	1 (2)	4 (9)	18 (42)	43 (100)
29	Machinery & Equipment	2 (3)	2 (3)	8 (12)	1 (2)	1 (2)	0 (0)	0 (0)	2 (3)	12 (18)	1 (2)	2 (3)	5 (8)	30 (45)	66 (100)
30	Office accounting & computing machinery	0 (0)	0 (0)	0 (0)	1 (50)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (50)	2 (0)
31	Electrical Machinery	2 (8)	0 (0)	2 (8)	1 (4)	3 (13)	0 (0)	0 (0)	1 (4)	3 (13)	0 (0)	0 (0)	1 (4)	11 (46)	24 (100)
32	Radio, TV, Communication Equip. & Appliances	1 (4)	1 (4)	2 (8)	0 (0)	1 (4)	0 (0)	0 (0)	2 (8)	5 (21)	0 (0)	0 (0)	2 (8)	10 (42)	24 (100)
33	Medical, Precision, Optical Instruments, Watches	0 (0)	0 (0)	0 (0)	0 (0)	1 (5)	6 (27)	1 (5)	0 (0)	9 (41)	0 (0)	1 (5)	0 (0)	4 (18)	22 (100)
34	Motor Vehicles, Trailers & Semi-Trailers	1 (10)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	1 (10)	1 (10)	0 (0)	0 (0)	3 (30)	1 (10)	2 (20)	10 (100)
35	Transport Equipments	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
36	Furniture, Jewellery/sports goods, toys & stationery	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (40)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (60)	5 (100)
101	Total	14 (4)	26 (7)	45 (12)	11 (3)	7 (2)	10 (3)	3 (1)	9 (2)	57 (15)	9 (2)	10 (3)	16 (4)	166 (43)	383* (100)

*Figures in parenthesis indicate percentage of reporting units. # Number of total R&D units is less than 698 due to non-response by some units

Table 25: Industrywise -Opinion about the Patent System

2 digit Ind	Industry Name	Not applicable in the industry	Not required	Flexible so that latest innovation from abroad may be made available to SSI's	Procedure for obtaining patent simplified	Cost of obtaining patent should be reduced	Patent regime to be made strong to prevent others from exploiting innovations	Total
15	Food Products & Beverages	1 (3)	1 (3)	6 (19)	1 (3)	12 (38)	11 (34)	32 (100)
17	Textiles	0 (0)	2 (5)	7 (16)	1 (2)	10 (23)	24 (55)	44 (100)
18	Wearing Apparels	0 (0)	0 (0)	1 (8)	3 (25)	1 (8)	7 (58)	12 (100)
19	Leather Products	2 (29)	2 (29)	0 (0)	0 (0)	0 (0)	3 (43)	7 (100)
21	Paper & Paper Products	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
23	Refined petroleum	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (100)	1 (100)
24	Chemicals & Chemical Pds	1 (25)	0 (0)	2 (50)	0 (0)	0 (0)	1 (25)	4 (100)
25	Rubber & Plastic Products	0 (0)	1 (9)	1 (9)	0 (0)	0 (0)	9 (82)	11 (100)
26	Non-metallic mineral Products	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
27	Basic Metals	0 (0)	1 (8)	2 (17)	1 (8)	1 (8)	7 (58)	12 (100)
28	Metal products	8 (16)	1 (2)	5 (10)	1 (2)	2 (4)	34 (67)	51 (100)
29	Machinery & Equipment	2 (3)	1 (2)	6 (10)	1 (2)	14 (24)	34 (59)	58 (100)
30	Office accounting & computing machinery	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
31	Electrical Machinery	1 (4)	0 (0)	10 (38)	1 (4)	4 (15)	10 (38)	26 (100)
32	Radio, TV,Communication Equip. & Appliances	0 (0)	0 (0)	1 (8)	0 (0)	6 (46)	6 (46)	13 (100)
33	Medical, Precision, Optical Instruments, Watches	1 (14)	0 (0)	6 (86)	0 (0)	0 (0)	0 (0)	7 (100)
34	Motor Vehicles,Trailers & Semi-Trailers	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	6 (100)	6 (100)
35	Transport Equipments	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
36	Furniture,Jewellery,sports goods,toys & stationery	0 (0)	1 (25)	0 (0)	0 (0)	1 (25)	2 (50)	4 (100)
101	Total	16 (6)	10 (4)	47 (18)	9 (3)	51 (19)	130 (49)	263# (100)

*Figures in parenthesis indicate percentage of reporting units. # Number of total R&D units is less than 698 due to non-response by some units

Table 26: Industrywise- Opinion about the Duration of the Future Validity of a Innovative Product/Concept

2 digit Ind	Industry name	1 year	2 years	3 years	4 years	5 years	6 years	7 years	8 years	9 years	10 years	11 years	12 years	13 years	14 years	15 years	16 years	17 years	18 years	19 years	20 years	No such specific	Can't specify	Very short period	Others	Total
15	Food Products & Beverages	9	3	2	7	2	2	1	0	7	0	1	0	0	0	0	0	0	0	0	0	0	10	2	1	49
17	Textiles	27	17	9	6	2	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	68
18	Wearing Apparels	7	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	12
19	Leather Products	4	7	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	1	26	
21	Paper & Paper Products	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	Refined petroleum	0	4	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	Chemicals & Chemical Pdtis	1	4	8	5	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	10
25	Rubber & Plastic Products	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
26	Non-metallic mineral Products	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	16
27	Basic Metals	2	3	5	0	5	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	12	0	0	0	16
28	Metal products	0	5	2	6	3	4	3	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	10	31
29	Machinery & Equipment	12	15	0	18	3	1	5	0	7	0	1	0	0	0	0	0	0	0	0	1	4	8	7	47	
30	Office accounting & computing machinery	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	3	0	72
31	Electrical Machinery	5	7	2	6	4	5	2	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
32	Radio, TV,Communication Equip. & Appliances	2	9	1	8	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2	1	2	42	
33	Medical, Precision, Optical Instruments, Watches	1	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	22
34	Motor Vehicles, Trailers & Semi-Trailers	4	2	0	2	0	0	0	0	1	1	2	0	0	0	0	0	0	0	0	0	11	11	0	0	20
35	Transport Equipments	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	25
36	Furniture, Jewellery, sports goods, toys & stationery	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
101	Total	82	83	31	66	19	15	11	2	19	4	6	0	1	9	0	0	0	0	2	4	4	82	17	28	485

Table 27: Industrywise - Facilities Offered by New Business Environment									
2 digit ind	Industry Name	Outreach to new markets	Better utilisation of electronic media	Better advertising facilities	Removal of entry restrictions	Availability of modern machines and equipment	Better retail and marketing facilities	Total	
15	Food Products & Beverages	4 (13)	1 (3)	1 (3)	1 (3)	0 (0)	23 (77)	30 (100)	
17	Textiles	0 (0)	1 (3)	0 (0)	1 (3)	9 (26)	23 (68)	34 (100)	
18	Wearing Apparels	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	4 (100)	4 (100)	
19	Leather Products	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	4 (100)	4 (100)	
21	Paper & Paper Products	9 (36)	2 (8)	0 (0)	6 (24)	1 (4)	7 (28)	25 (100)	
23	Refined petroleum	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	9 (100)	9 (100)	
24	Chemicals & Chemical Pdis	0 (0)	1 (7)	0 (0)	4 (27)	1 (7)	9 (60)	15 (100)	
25	Rubber & Plastic Products	0 (0)	0 (0)	0 (0)	1 (10)	1 (10)	8 (80)	10 (100)	
26	Non-metallic mineral Products	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	5 (100)	5 (100)	
27	Basic Metals	0 (0)	0 (0)	3 (16)	0 (0)	0 (0)	16 (84)	19 (100)	
28	Metal products	14 (39)	1 (3)	0 (0)	1 (3)	4 (11)	16 (44)	36 (100)	
29	Machinery & Equipment	10 (16)	5 (8)	2 (3)	3 (5)	11 (17)	33 (52)	64 (100)	
30	Office accounting & computing machinery	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (100)	1 (100)	
31	Electrical Machinery	5 (20)	0 (0)	0 (0)	0 (0)	8 (32)	12 (48)	25 (100)	
32	Radio, TV, Communication Equip. & Appliances	1 (8)	0 (0)	0 (0)	0 (0)	2 (17)	9 (75)	12 (100)	
33	Medical, Precision, Optical Instruments, Watches	1 (7)	2 (14)	0 (0)	0 (0)	1 (7)	10 (71)	14 (100)	
34	Motor Vehicles, Trailers & Semi-Trailers	5 (56)	0 (0)	0 (0)	0 (0)	1 (11)	3 (33)	9 (100)	
35	Transport Equipments	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
36	Furniture, Jewellery, sports goods, toys & stationary	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	4 (100)	4 (100)	
101	Total	49 (16)	13 (4)	6 (2)	17 (5)	39 (12)	192 (61)	316# (100)	

*Figures in parenthesis indicate percentage of reporting units.

Number of total R&D units is less than 698 due to non-response by some units

Table 28: Industrywise - Units Selling R&D to Other Companies Across Industry Cluster						
2 digit Ind	Industry name	Sold R&D to other companies		Not sold R&D to other companies		Total
15	Food Products & Beverages	2	(3)	56	(97)	58 (100)
17	Textiles	0	(0)	77	(100)	77 (100)
18	Wearing Apparels	0	(0)	25	(100)	25 (100)
19	Leather Products	0	(0)	26	(100)	26 (100)
21	Paper & Paper Products	0	(0)	10	(100)	10 (100)
23	Refined petroleum	0	(0)	9	(100)	9 (100)
24	Chemicals & Chemical Pdts	0	(0)	23	(100)	23 (100)
25	Rubber & Plastic Products	0	(0)	26	(100)	26 (100)
26	Non-metallic mineral Products	0	(0)	16	(100)	16 (100)
27	Basic Metals	0	(0)	27	(100)	27 (100)
28	Metal products	1	(2)	46	(98)	47 (100)
29	Machinery & Equipment	4	(5)	82	(95)	86 (100)
30	Office accounting & computing machinery	1	(50)	1	(50)	2 (100)
31	Electrical Machinery	0	(0)	40	(100)	40 (100)
32	Radio, TV, Communication Equip. & Appliances	3	(10)	26	(90)	29 (100)
33	Medical, Precision, Optical Instruments, Watches	3	(13)	20	(87)	23 (100)
34	Motor Vehicles, Trailers & Semi-Trailers	1	(2)	44	(98)	45 (100)
35	Transport Equipments	0	(0)	10	(100)	10 (100)
36	Furniture, Jewellery, sports goods, toys & stationery	0	(0)	1	(100)	1 (100)
101	Total	15	(3)	565	(97)	580[#] (100)

*Figures in parenthesis indicate percentage of reporting units.

Number of total R&D units is less than 698 due to non-response by some units



NATIONAL COUNCIL OF APPLIED ECONOMIC RESEARCH

Survey of Research & Development (R&D) activities
undertaken by Small-Scale Industries (SSI)

FILTER SCHEDULE (QUESTIONNAIRE 1)

1. Identification

Study Code: _____

0	1	1
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Deck No.: _____

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Interview No.: _____

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Name of the Unit _____

Name & Designation of the Respondent _____

Postal Address _____

Telephone: _____ Fax: _____ Email: _____

Year of establishment /Age of the Unit: _____

SSI Registration Number with DIC _____

2. Ownership pattern: (please ✓)

Sole Proprietorship - 1 Partnership - 2 Joint stock company - 3
Private Ltd. - 4 Public Ltd. - 5 Others (specify) - 6

3. Please (✓) the origin of the unit from the following category:

An independent start-up - 1 A takeover/set-up by another firm - 2
A spin-off from an existing unit - 3 Family Business - 4 Others (specify) - 5

4. Kindly furnish the experience and qualifications of the owner/manager (Please ✓)

Research/engineering experience - 1 Research engineering qualification - 2
Managerial experience - 3 Managerial qualification - 4
Family business with no formal qualification - 5 Others (specify) - 6

5. Type of Unit: (please ✓)

SSI (independent) - 1 Ancillary Industry - 2
Export Oriented Unit (EOU) - 3 Subsidiary - 4 Others (specify) - 5

6. How many companies do you own at present? _____

7. Please mention the name of the major product _____

8. Industry Group /Sector (3-digit level for office use only)

--	--	--

9. In which geographical area does your unit primarily operate?

Various states - 1 Outside country - 2 Both - 3
Only local - 4 No Response - 5

10. Whether the unit falls under the reservation list of SSI unit ? (Please ✓)

Yes -1 No -2 Not mentioned -3

11. Whether you would like to remain as a SSI unit or would like to grow into a larger unit?

Like to remain as SSI unit - 1 Like to grow to a larger unit - 2 No opinion - 3

12. Gross Value of Plant & Machinery at the time of setting up of unit

(please ✓the range or provide the actual figures Rs.-----)

Up to Rs. 10 lakhs - 1 10 – 25 lakhs - 2 25 – 60 lakhs - 3 60 – 75 lakhs - 4
75 lakhs – 1crore - 5 Don't know/NA - 6

13. Please mention the capacity utilisation in percentage

(please ✓the range or provide the actual percentage-----)

Up to 20% - 1 20 – 40% - 2 40 – 60% - 3 60 – 80% - 4 80 – 100% - 5
Not possible to quantify - 6

14. Please give the number of employees over last 5-years

Employees	2000-2001	1999-2000	1998-1999	1997-1998	1996-1997
Total					
% Female					

15. What has been your growth of manpower over the past five years? (Please ✓)

Increased substantially - 1 Increased Marginally - 2 No increase - 3
Decreased - 4 No Response - 5

16. Please mention the number of specialist staff as on March 2001:

Specialist Staff

Number

- Engineers/Scientists' category _____

--	--	--

- Management/Administration _____

--	--	--

17. Do you hire consultant(s) for undertaking any kind of innovation in product/process? (Please ✓)

Yes - 1 No - 2

18. Please furnish the following details (Rs Lakh)

Heads	2000-2001	1999-2000	1998-1999	1997-1998	1996-1997
Annual Turnover					
Exports					
Gross margin /gross profit as percentage of turn over*					

* Earnings before depreciation, interest and tax.

19. What has been the growth of annual turnover during the last five years:

Increased substantially - 1 Increased Marginally - 2 No increase - 3
Decreased - 4 No response - 5

20. Do you use Information Technology (IT) ? Yes - 1 No - 2

If yes, whether you use it as an enabler to: (you can ✓ more than one field)

Computerised Invoicing -1 Inventory Management -2 ERP -3 MIS -4
CAD -5 CAM -6 E-business -7
Any other reasons (specify) -8 No response -9

21. Are you using intranet?

Yes - 1 No - 2

If yes, are you using it for (you can ✓ more than one field)

E-mail - 1 Sharing documents/products - 2
Product Planning - 3 Office Communication- 4
Inventory Management -5 Developing own Web page -6 Don't know - 7

22. Are you using Internet?

Yes - 1 No - 2

If yes, whether you use it for (you can ✓ more than one field)

Knowledge search on WWW - 1 Business intelligence - 2
Knowledge exchange with suppliers and customers - 3 Global competition - 4
E-mail with the customers -5 Creating Web page-6 Others (specify) - 7

23. Please answer the following question: Yes - 1 No - 2

Questions (please ✓ the relevant fields)	
1. Whether the unit has purchased advanced equipment or machinery in the last 5-years and adopted it for local conditions?	<input type="checkbox"/>
2. Whether purchased any advanced software during last three years? (include only ERP,CAD,CAM etc. excluding MS office)	<input type="checkbox"/>
3. Whether patented/applied for patent/obtain IPR for any product/process	<input type="checkbox"/>
4. Whether the unit has gone for an expansion in last 5 years	<input type="checkbox"/>
5. Whether gone for quality improvement through product process innovation	<input type="checkbox"/>
6. Whether there is any cost reduction through product process innovation	<input type="checkbox"/>
7. Whether developed any new product/changed product shape or dimension	<input type="checkbox"/>

(Contd.)

(Contd.)

Questions (please ✓ the relevant fields)	
8. Whether modified any existing machinery/process flow	<input type="checkbox"/>
9. Whether spent any money on consultants for R&D	<input type="checkbox"/>
10. Whether spent money on tooling/design for tooling of any product	<input type="checkbox"/>
11. Whether incurred any expenditure on trial development of new product/process	<input type="checkbox"/>
12. Whether there is any changes in managerial process organisational structure/planning etc.	<input type="checkbox"/>
13. Whether in last 5 years produced any breakthrough innovation (i.e. new products or services)	<input type="checkbox"/>

Note: If you do not know the answer to any of the questions, please go to question number 27.

24. Are you aware of our obligations under World Trade Organisation (WTO) agreement? (please ✓) Yes - 1 No - 2
25. Imported raw material as percentage of total raw materials consumed. (please ✓ the range or provide the actual figures for imported raw materials Rs.-----and total raw materials Rs.-----)
- | | | | |
|------------|---------------|-------------|-------------|
| Nil - 1 | up to-10% - 2 | 10-30% - 3 | 30-50% - 4 |
| 50-70% - 5 | 70-90% - 6 | 90-100% - 7 | No idea - 8 |
26. R&D spending as percentage of total turnover (please ✓ the range)
- | | | | |
|----------|------------------|----------------|----------|
| Nil - 1 | 0-2% - 2 | 2-4% - 3 | 4-6% - 4 |
| 6-8% - 5 | More than 8% - 6 | Don't know - 7 | |
27. If it is not possible to answer the above question, kindly mention your expenditure on R&D per year Rs. ('000) _____.
- | | | | |
|--|--|--|--|
| | | | |
|--|--|--|--|

Note: Even if all answers to the items in question number 23 is 'no', the response code for question numbers 25 & 26 is 2 to 7 and 2 to 5 respectively. If you go to question no 27.

28. Are there regular exchanges and interaction on technological information between your unit and outside? (please ✓) Yes - 1, No - 2
29. Whether the unit has R&D department (please ✓) Yes - 1, No - 2
- If no, Reasons for not having R&D Department (you can ✓ more than one field)*
- | | | |
|---------------------------------|-------------------------|----------------------------------|
| No need was felt - 1 | No competition - 2 | Financial constraint - 3 |
| Lack of infrastructure - 4 | Lack of information - 4 | Buy it from outside agencies - 5 |
| Lack of knowledge about R&D - 6 | Others (specify) - 7 | |
| No response - 8 | | |
- | | | | |
|--|--|--|--|
| | | | |
|--|--|--|--|

Name of the Interviewer: _____
 Date of Interview: _____



NATIONAL COUNCIL OF APPLIED ECONOMIC RESEARCH
Survey of Research & Development (R&D) Activities
Undertaken by Small-Scale Industries (SSI)

TARGET SCHEDULE (QUESTIONNAIRE 2)

Identification

1. Study Code: _____

0	1	1
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2. Deck No.: _____

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3. Interview No.: _____

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4. Please mention the year of establishment of R&D department in your unit?
 Year _____

--	--

Section A: Reasons, Sources and Types of R&D Activities

5. What is/are the reason(s) for undertaking R&D? (You can ✓ more than one field)

- 01. To increase the market share by reducing the cost of the product
- 02. To retain the market share even while increasing the price of the product
- 03. Technology change
- 04. Global competition/globalisation
- 05. Domestic competition
- 06. Policy changes/liberalisation
- 07. Consumer preference
- 08. Environment protection & safety
- 09. High cost of technology purchased
- 10. To improve quality
- 11. Pressure from collaborating buyers
- 12. Pressure from collaborating suppliers
- 13. Others (specify)

6. What are the main sources of know-how leading to innovation in your unit? (Please ✓)

Internal

In-house R&D department - 1

Experienced workers doing innovation, without R&D department - 2

Journals – technical / scientific - 3 Subsidiaries - 4 Others (specify) - 5

External

Buyer - 01 Collaborators - 02 Suppliers - 03

CSIR/Govt. departments - 04 Universities - 05

Collective learning/local entrepreneurs sharing knowledge among themselves - 06

Local/regional institutions - 07 IIT - 08 Imported technology adopted - 09

Others (specify) - 10

Environmental

Technical collaboration - 1 Alliances - 2 Equity participation - 3 Others (specify) - 4

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7. Please mention the type(s) of innovative activities undertaken in the Unit:

Yes - 1; No - 2; No response - 3

Activities	Existing Product	New Product	Existing Process	New Process
New technology				
Existing technology				
New system/new machines				
New materials \				
New packaging				
Quality improvement		*****		*****
Adoption of imported technology				
Modification		*****		*****

8. What has been done in the recent past, which is not covered above for adding value to the product? (Specify) _____

Section B: Business Environment

9. Please answer the following:

Arising out of product cluster	Yes - 1; No - 2; No response - 3
Facility of specialised infrastructure/institutions	
Factor endowments such as land, labour, raw materials, etc.	
Advantage of past industrial activities	
Help from association to connect both small and large firms around a supply chain	
Geographical proximity which helps to facilitate horizontal linkages and activities between companies	
Arising out of suppliers	*****
The suppliers of raw materials (local or imported) contribute to innovation of your unit	
Whether other units in the cluster purchase your product?	
Arising out of collaborating customers	*****
Knowledge of components	
Different types of capital goods	
Scientific inputs	
Taking part in the production	
Others (specify) _____	

10. Identify the method(s) of contacting the supplier. (Please ✓)

Yes - 1; No - 2; No response - 3

Places	Local Supplier	Foreign Supplier
Meetings and seminars		
Through local associations		
Social gatherings		
Trade fairs		
Purchase sites		
Visiting home		
Electronic media		
Other occasions (specify)		

11. What are the location specific advantages for your firm? (Rank them in order of importance, i.e. 1 - most important to 7 - least important)

Advantages	Rank (1-7)
Access to infrastructure like airport, port, roads, etc.	
Business atmosphere	
Access to innovative people, technology	
Availability of local/regional engineering staff	
Availability of land and buildings	
Social infrastructure like school, hospital, market place etc. for managerial staff	
Advice received from local agencies regarding product development	

12. How well are the following services available to you in the geographical clusters? (Please rank accordingly)

Good - 1 Moderate - 2 Fair - 3 Poor - 4 Don't know - 5

Services	Rank
Legal	
Computer	
Accountancy	
Design & Advertising	
Venture capital	
Courier services	
Banks	

Section C: R&D Expenditure & Manpower

13. Please mention the R&D expenditure over the last three years: (Rs. Lakh)

R & D Expenditure	2000-2001	1999-2000	1998-1999
Total R&D expenditure			
<i>In-house</i>			
Based on his own ideas			
Buying design/drawing for developing prototype			
Scaling up technology bought from labs & institutions			
<i>Extramural R&D/sponsored work</i>			

14. Please specify R&D expenditure in major heads for the last three years:

Heads	In-house R&D Expenditure (Rs. Lakh)		
	2000-01	1999-2000	1998-99
Total Capital Expenditure			
Investment on land & building for R&D activities			
Investment on advanced equipment			
Patent purchased/Intellectual Property Rights (IPR)			
Amount spent on training			
Total Revenue Expenditure			
Investment on R&D manpower			
Technology payments for scaling up R&D			
Payments to consultants for R&D			
International exposure (seminar etc.)			
Others (specify)			
Grand Total			

15. Please mention the source(s) and percentage share of funds for R&D Activities:

Own resources/share capital - 1 Financial Institutions - 2 Banks - 3
 Parent company - 4 Venture capital - 5
 Technical Development Board (TDB) - 6 Others (specify) - 7

16. Please mention the number of employees over last three years:

Employees	2000-01	1999-2000	1998-99
Total Number			
R&D Staff			

17. Please furnish the detailed break-up of R&D manpower over last 2 years:

Manpower	2000-01		1999-2000		Average Annual Salary (Rs. '000)	
	Male	Female	Male	Female	2000-2001	1999-2000
Full Time in Numbers						
R&D personnel						
Auxiliary staff						
Other staff						
Total						
Part Time in Numbers						
R&D personnel						
Auxiliary staff						
Total						

18. Please furnish the details of qualification for R&D personnel as on March 2001:

Persons	Science & Engineering						
	Ph.D	Post Grad.	Engineering	B-Tech	Graduate	Diploma	Apprentice/ITI
Full-time							
Male							
Female							
Part-time							
Male							
Female							

19. Do you give training to your manpower for undertaking R&D?

Yes - 1; No - 2; No response -3

If yes, whether the training is given In - house - 1 outside - 2 (Please ✓)

20. How mobile is the R&D manpower in your field of activities?

Highly mobile - 1 Moderately mobile - 2 Low mobility - 3 Nil - 4 Do not know - 5

Section D: R&D Output

21. Please rank the identifiable outcome effects of your R&D activities and also mention the number of times such efforts have been made by you since inception of your unit :

(Please furnish the actual numbers including zero as no attempt)

R&D Output	Priority areas of your activities (Rank 1-10)	Number of efforts made as on March 2001	
		Successful	Unsuccessful
Number of projects achieved			
Number of projects in progress			
Number of projects commercialised			
New product/design			
New process/fabrication			
Improved quality			
Improved services			
Improved product			
Improved process/fabrication			
Waste reduction			
Cost reduction			
New services			
New machine			
Increased output			
Increased efficiency			
Patents filed			
Patents obtained			
Papers published			
Books published			
R&D seminars			

22. What kind of technology are you using in the unit?

Highly complex -1 Moderately complex - 2 Low-complexity - 3 Do not know - 4

23. Kindly furnish the financial returns of R&D (in Rs.'000)

Financial Return	2000-01	1999-2000	1998-99	1997-98
Total turnover				
Sales out of improved product/process				
Exports				

24. Please rank the factors from 1 (most important) to 10 (least important) in terms of their importance, from your perspective, towards contributing to Innovation/R&D Output.

Code: Excellent - 1 Good - 2 Fair - 3 Poor - 4

Items	Rank (1 to 10)	Please code how well your unit is satisfying the top five factors
Formal training of employees		
Formal education of employees		
On-the-job training		
Inter-and intra-preneurship skills		
Retention rates of R&D manpower		
Industry competition		
Information on product/process life cycle in the industry		
Intellectual Property Rights (IPR)		
R & D expenditures of the organisation		
Formalised knowledge transfer system		
Informal knowledge transfer system		
Interaction with customers and users		
Physical environment and ambiance		
Internal environment within the organisation		
Short-term and long-term goals		
Employees morale		
Employees creativity and ingenuity		
Employees stimulation and motivation		

25. What do you claim to be your major achievements from R&D activities during the last 3 years?

Section E: Incentives – Government & Associations

26. Are you aware of incentives given by the Government?

Yes - 1 No - 2 No response - 3

If yes, have you claimed any tax exemption/concession in filing of corporate tax return ?

Yes - 1 No - 2 No response - 3

27. Do you get any incentives/measures from the government for carrying out R&D?

Yes - 1 No - 2 No response - 3

If yes, whether the existing incentives/measures provided by the Government are: (Please ✓)

Sufficient - 1 Insufficient - 2 Can't say - 3

If no, please give your suggestions for improving the existing incentive structure/measures so that SSI units can boost their R&D activities.

28. What kind of support would you like to get from the Government? (Please ✓)
Financial - 1 Technological - 2 Training - 3 Infrastructure facilities - 4
Reduction in bureaucracy - 5 Others (specify) - 6

29. Are you member of any industrial association?

Yes - 1 No - 2 No response - 3

If yes, please mention the name of the association: _____

30. Whether the unit received any support for R&D from institutions like Confederation of Indian Industry, Chambers of Commerce, Colleges, Universities, local authorities and industry associations?

Yes - 1 No - 2 No response - 3

If yes, please mention the nature of the support:

31. How active are the local associations for providing help in R&D? (please ✓)

Pro-active - 1 Moderately active - 2 Inactive - 3 Others (specify) - 4

32. Whether they give any regional priority?

Yes - 1 No - 2 No response - 3

33. Have you approached or received any kind of incentives from Department of Scientific and Industrial Research (DSIR), Government of India ?

Yes - 1 No - 2 Not aware - 3

If yes, in what forms?

If no, give suggestion for improving the incentive scheme:

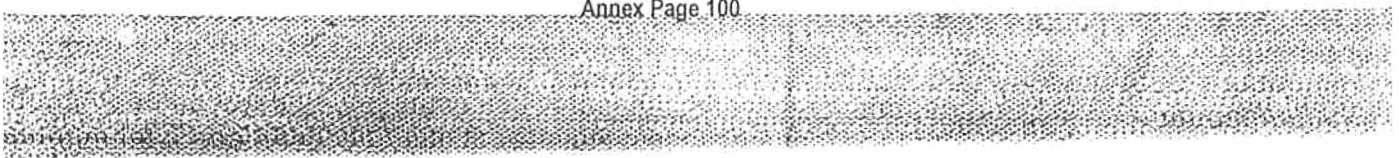
Section F: General

34. Has globalisation given you any threat? Yes - 1 No - 2

If yes, What kind of threat is given by the globalisation?

35. Has globalisation offered you any opportunity? Yes - 1 No - 2

If yes, what kind of opportunity(i.e.) is/are given by the globalisation?



36. Please mention the two most important factors that can boost R&D activities in the SSI sector:

37. What are the two major impediments in carrying out R&D activities in SSI sector?

38. What is your vision for R&D in future?

39. What should be the patent system/law for encouraging innovations in the SSI sector in your opinion?

40. What is the time period in which the result of innovation gets obsolete in your area of activity? (Please write the number of years)

41. What kinds of facilities are offered by the new business environment for marketing/commercialisation of your product?

42. Have you ever sold your R&D to other companies?

Yes - 1 No - 2 No response - 3

IDENTIFICATION

Name & Designation of the Respondent _____

Postal Address _____

Name of the Interviewer: _____

Date of Interview: _____

National Council of Applied Economic Research, 11, I.P. Estate, New Delhi - 110 002; Ph: 3379861/2/3



**Tables -
Product Cluster Analysis**

Rice Milling Product Cluster

S. No.	Parameters	Uttar Pradesh	Orissa
1	Age of the unit		
	1-3 years	30%	0%
	4-7 years	10%	10%
	8-10 years	0%	0%
	11-20 years	50%	30%
	21-30 years	10%	40%
	> 30 years	0%	20%
2	Ownership Pattern of Units		
	Sole Proprietorship	0%	30%
	Partnership	90%	40%
	Joint stock company	0%	0%
	Private Limited	10%	30%
	Public Limited	0%	0%
3	Origin Of Unit		
	Independent Startup	80%	80%
	Takeover/setup by another firm	10%	0%
	Spin off	0%	0%
	Family business	10%	20%
	Others	0%	0%
4	Experience & Qualification of owner/manager		
	Research/Engineering experience	20%	30%
	Research/Engineering qualification	0%	0%
	Managerial experience	30%	50%
	Managerial qualifications	0%	0%
	Family business with no formal qualification	20%	20%
	Others	30%	0%
5	Type of Unit		
	SSI	100%	100%
	Ancillary Industry	0%	0%
	Export Oriented Units	0%	0%
	Subsidiary	0%	0%
6	Primary Operations across geographical areas		
	Various states	90%	50%
	Outside country	0%	0%
	Both	10%	0%
	Only Local	0%	50%

S. No.	Parameters	Uttar Pradesh	Orissa
7	Units producing goods under reservation		
	Producing goods under reserved category	100%	0%
	Not producing goods under reserved category	0%	70%
	Not mentioned goods under reserved category	0%	30%
8	Vision for growth		
	Would like to remain as SSI	100%	10%
	Would like to grow into a larger unit	0%	90%
	No opinion	0%	0%
9	Value of Plant and Machinery		
	Upto Rs. 10 lakh	60%	0%
	10-25 lakhs	30%	60%
	25-60 lakhs	10%	30%
	60-75 lakhs	0%	10%
	75 lakhs-1 crore	0%	0%
10	Capacity Utilization		
	Upto 20%	0%	0%
	20-40%	10%	0%
	40-60%	60%	10%
	60-80%	20%	50%
	80-100%	0%	30%
	Not possible to quantify	0%	10%
11	Use of Information Technology		
	Units using IT	10%	80%
	Units not using IT	90%	20%
12	Usage of Intranet		
	Units using Intranet	10%	80%
	Units Not using Intranet	90%	20%
	No response	75%	53%
13	Usage of Internet		
	Units using Internet	10%	80%
	Units not using Internet	90%	20%
14	Are there regular exchanges and interaction on technological information between your unit and outside		
	Yes	90%	10%
	No	30%	70%

S. No.	Parameters	Uttar Pradesh	Orissa
15	Awareness of the World Trade Organisation		
	Units aware of WTO	100%	90%
	Units not aware of WTO	0%	10%
16	Reasons for not having R&D department		
	No need was felt		9%
	No competition		0%
	Financial constraint		16%
	Lack of infrastructure		6%
	Lack of information		0%
	Buy it from outside agencies		0%
	Lack of knowledge about R&D		1%
	Others		66%
17	Whether the unit has R&D department		
	Yes	100%	20%
	No	0%	80%
18	Number of Employees		
	2002-2001	192	346
	1999-2000	187	345
	1998-1999	137	344
	1997-1998	121	353
	1996-1997	103	352
19	Turnover (Rs. lakhs)		
	2000-2001	2308	5427
	1999-2000	2191	5008
	1998-1999	1770	5064
	1997-1998	1540	4788
	1996-1997	1350	4784
20	Exports (Rs. lakhs)		
	2000-2001	125	
	1999-2000	115	
	1998-1999	97	
	1997-1998	97	
	1996-1997	20	

Food Products Cluster

S.No.	Parameters	Maharashtra	Himanchal Pradesh
1	Age of the unit		
	1-3 years	20%	14%
	4-7 years	20%	0%
	8-10 years	0%	29%
	11-20 years	0%	43%
	21-30 years	30%	14%
	> 30 years	30%	0%
2	Ownership Pattern of Units		
	Sole Proprietorship	40%	14%
	Partnership	30%	14%
	Joint stock company	0%	0%
	Private Limited	30%	29%
	Public Limited	0%	29%
3	Origin Of Unit		
	Independent Startup	60%	57%
	Takeover/setup by another firm	0%	14%
	Spin off	0%	0%
	Family business	40%	14%
	Others	0%	14%
4	Experience & Qualification of owner/manager		
	Research/Engineering experience	0%	0%
	Research/Engineering qualification	10%	29%
	Managerial experience	0%	43%
	Managerial qualifications	50%	14%
	Family business with no formal qualification	40%	14%
	Others	0%	0%
5	Type of Unit		
	SSI	90%	100%
	Ancillary Industry	10%	0%
	Export Oriented Units	0%	0%
	Subsidiary	0%	0%
6	Primary Operations across geographical areas		
	Various states	60%	0%
	Outside country	0%	0%
	Both	10%	14%
	Only Local	30%	86%

S.No.	Parameters	Maharashtra	Himanchal Pradesh
7	Units producing goods under reservation		
	Producing goods under reserved category	10%	14%
	Not producing goods under reserved category	80%	71%
	Not mentioned goods under reserved category	10%	14%
8	Vision for growth		
	Would like to remain as SSI	60%	14%
	Would like to grow into a larger unit	30%	86%
	No opinion	10%	0%
9	Value of Plant and Machinery		
	Upto Rs. 10 lakh	10%	43%
	10-25 lakhs	90%	29%
	25-60 lakhs	0%	14%
	60-75 lakhs	0%	14%
	75 lakhs-1 crore	0%	0%
10	Capacity Utilization		
	Upto 20%	10%	0%
	20-40%	0%	0%
	40-60%	20%	14%
	60-80%	60%	14%
	80-100%	10%	71%
	Not possible to quantify	0%	0%
11	Use of Information Technology		
	Units using IT	70%	0%
	Units not using IT	30%	100%
12	Usage of Intranet		
	Units using Intranet	60%	14%
	Units Not using Intranet	40%	86%
13	Usage of Internet		
	Units using Internet	50%	29%
	Units not using Internet	50%	71%
14	Are there regular exchanges and interaction on technological information between your unit and outside		
	Yes	60%	71%
	No	40%	29%
15	Awareness of the World Trade Organisation		
	Units aware of WTO	70%	100%

S.No.	Parameters	Maharashtra	Himanchal Pradesh
	Units not aware of WTO	30%	0%
16	Reasons for not having R&D department		
	No need was felt	21%	0%
	No competition	4%	0%
	Financial constraint	11%	25%
	Lack of infrastructure	7%	25%
	Lack of information	21%	0%
	Buy it from outside agencies	7%	0%
	Lack of knowledge about R&D	0%	0%
	Others	29	50%
17	Whether the unit has R&D department		
	Yes	30%	86%
	No	70%	14%
18	Number of Employees		
	2002-2001	262	103
	1999-2000	241	97
	1998-1999	220	87
	1997-1998	178	82
	1996-1997	158	83
19	Turnover (Rs. lakhs)		
	2000-2001	444	872
	1999-2000	395	734
	1998-1999	357	726
	1997-1998	264	589
	1996-1997	237	590
20	Exports (Rs. lakhs)		
	2000-2001	6	
	1999-2000	5	
	1998-1999	5	
	1997-1998	5	
	1996-1997	5	

Hosiery Product Cluster

S.No.	Parameters	Punjab	Delhi
1	Age of the unit		
	1-3 years	0%	20%
	4-7 years	30%	20%
	8-10 years	20%	40%
	11-20 years	30%	20%
	21-30 years	10%	0%
	> 30 years	10%	0%
2	Ownership Pattern of Units		
	Sole Proprietorship	10%	90%
	Partnership	30%	10%
	Joint stock company	0%	0%
	Private Limited	50%	0%
3	Origin Of Unit		
	Independent Startup	90%	100%
	Takeover/setup by another firm	0%	0%
	Spin off	10%	0%
	Family business	0%	0%
	Others	0%	0%
4	Experience & Qualification of owner/manager		
	Research/Engineering experience	40%	40%
	Research/Engineering qualification	0%	20%
	Managerial experience	50%	40%
	Managerial qualifications	0%	0%
	Family business with no formal qualification	10%	0%
5	Type of Unit		
	SSI	100%	90%
	Ancillary Industry	0%	0%
	Export Oriented Units	0%	0%
	Subsidiary	0%	10%
6	Primary Operations across geographical areas		
	Various states	40%	80%
	Outside country	20%	20%
	Both	40%	0%
	Only Local	0%	0%

S.No.	Parameters	Punjab	Delhi
7	Units producing goods under reservation		
	Producing goods under reserved category	40%	100%
	Not producing goods under reserved category	60%	0%
	Not mentioned	0%	0%
8	Vision for growth		
	Would like to remain as SSI	10%	40%
	Would like to grow into a larger unit	90%	60%
	No opinion	0%	0%
9	Value of Plant and Machinery		
	Upto Rs. 10 lakh	30%	30%
	10-25 lakhs	40%	60%
	25-60 lakhs	10%	10%
	60-75 lakhs	0%	0%
	75 lakhs-1 crore	10%	0%
	Don,t know	10%	0%
10	Capacity Utilization		
	Upto 20%	0%	0%
	20-40%	10%	30%
	40-60%	40%	70%
	60-80%	30%	0%
	80-100%	20%	0%
	Not possible to quantify	0%	0%
11	Use of Information Technology		
	Units using IT	100%	90%
	Units not using IT	0%	10%
	No Response	18%	44%
12	Usage of Intranet		
	Units using Intranet	40%	60%
	Units Not using Intranet	60%	40%
13	Usage of Internet		
	Units using Internet	70%	100%
	Units not using Internet	30%	0%
14	Are there regular exchanges and interaction on technological information between your unit and outside		
	Yes	10%	80%
	No	90%	20%

S.No.	Parameters	Punjab	Delhi
15	Awareness of the World Trade Organisation		
	Units aware of WTO	0%	0%
	Units not aware of WTO	100%	100%
16	Whether the unit has R&D department		
	Yes	0%	60%
	No	100%	40%
17	Reasons for not having R&D department		
	No need was felt	3%	25%
	No competition	0%	0%
	Financial constraint	13%	6%
	Lack of infrastructure	10%	6%
	Lack of information	3%	0%
	Buy it from outside agencies	15%	13%
	Lack of knowledge about R&D	1%	0%
	Others	55%	50%
18	Number of Employees		
	2002-2001	548	258
	1999-2000	527	258
	1998-1999	508	257
	1997-1998	497	240
	1996-1997	484	239
19	Turnover (Rs. lakhs)		
	2000-2001	4695	700
	1999-2000	4555	675
	1998-1999	3323	650
	1997-1998	3256	525
	1996-1997	3239	505
20	Exports (Rs. lakhs)		
	2000-2001	1800	190
	1999-2000	2331	190
	1998-1999	1195	190
	1997-1998	865	185
	1996-1997	810	184

Foundry Product Cluster

S.No.	Parameters	Uttar Pradesh	Maharashtra
1	Age of the unit		
	1-3 years	0%	0%
	4-7 years	10%	10%
	8-10 years	0%	10%
	11-20 years	10%	40%
	21-30 years	60%	10%
	> 30 years	20%	30%
2	Ownership Pattern of Units		
	Sole Proprietorship	20%	40%
	Partnership	80%	30%
	Joint stock company	0%	0%
	Private Limited	0%	20%
	Public Limited	0%	10%
3	Origin Of Unit		
	Independent Startup	60%	90%
	Takeover/setup by another firm	0%	0%
	Spin off	0%	0%
	Family business	40%	10%
	Others	0%	0%
4	Experience & Qualification of owner/manager		
	Research/Engineering experience	0%	40%
	Research/Engineering qualification	0%	0%
	Managerial experience	30%	20%
	Managerial qualifications	30%	10%
	Family business with no formal-qualification	40%	20%
	Others	0%	10%
5	Type of Unit		
	SSI	100%	80%
	Ancillary Industry	0%	20%
	Export Oriented Units	0%	0%
	Subsidiary	0%	0%
6	Primary Operations across geographical areas		
	Various states	0%	60%
	Outside country	0%	0%
	Both	0%	0%

S.No.	Parameters	Uttar Pradesh	Maharashtra
	Only Local	100%	40%
7	Units producing goods under reservation		
	Producing goods under reserved category	80%	80%
	Not producing goods under reserved category	0%	10%
	Not mentioned	20%	10%
8	Vision for growth		
	Would like to remain as SSI	20%	60%
	Would like to grow into a larger unit	80%	30%
	No opinion	0%	10%
9	Value of Plant and Machinery		
	Upto Rs. 10 lakh	20%	20%
	10-25 lakhs	20%	20%
	25-60 lakhs	60%	40%
	60-75 lakhs	0%	0%
	75 lakhs-1 crore	0%	10%
	Don,t know	0%	10%
10	Capacity Utilization		
	Upto 20%	0%	0%
	20-40%	0%	0%
	40-60%	10%	10%
	60-80%	90%	20%
	80-100%	0%	70%
	Not possible to quantify	0%	0%
11	Use of Information Technology		
	Units using IT	20%	60%
	Units not using IT	80%	40%
	No Response	88%	25%
12	Usage of Intranet		
	Units using Intranet	0%	60%
	Units Not using Intranet	100%	40%
13	Usage of Internet		
	Units using Internet	30%	50%
	Units not using Internet	70%	50%
14	Are there regular exchanges and interaction on technological information between your unit and outside		
	Yes	20%	30%

S.No.	Parameters	Uttar Pradesh	Maharashtra
	No	80%	70%
15	Awareness of the World Trade Organisation		
	Units aware of WTO	20%	40%
	Units not aware of WTO	80%	60%
16	Whether the unit has R&D department		
	Yes	0%	40%
	No	100%	60%
17	Reasons for not having R&D department		
	No need was felt	0%	17%
	No competition	0%	0%
	Financial constraint	0%	17%
	Lack of infrastructure	0%	8%
	Lack of information	25%	8%
	Buy it from outside agencies	0%	8%
	Lack of knowledge about R&D	0%	1%
	Others	75%	38%
18	Number of Employees		
	2002-2001	429	584
	1999-2000	397	531
	1998-1999	403	485
	1997-1998	366	418
	1996-1997	394	326
	Total	1989	2344
19	Turnover (Rs. lakhs)		
	2000-2001	652	2771
	1999-2000	584	2438.5
	1998-1999	588	2082.5
	1997-1998	557	1265
	1996-1997	601	752
	Total	2982	9309

Hand Tools Product Cluster

S.No.	Parameters	Punjab	Rajasthan
1	Age of the unit		
	1-3 years	10%	0%
	4-7 years	30%	0%
	8-10 years	20%	0%
	11-20 years	30%	100%
	21-30 years	10%	0%
	> 30 years	0%	0%
2	Ownership Pattern of Units		
	Sole Proprietorship	40%	100%
	Partnership	60%	0%
	Joint stock company	0%	0%
	Private Limited	0%	0%
	Public Limited	0%	0%
3	Origin Of Unit		
	Independent Startup	80%	100%
	Takeover/setup by another firm	0%	0%
	Spin off	10%	0%
	Family business	10%	0%
	Others	0%	0%
4	Experience & Qualification of owner/manager		
	Research/Engineering experience	10%	0%
	Research/Engineering qualification	30%	0%
	Managerial experience	0%	0%
	Managerial qualifications	10%	0%
	Family business with no formal qualification	50%	100%
	Others	0%	0%
5	Type of Unit		
	SSI	60%	33%
	Ancillary Industry	0%	0%
	Export Oriented Units	40%	0%
	Subsidiary	0%	67%
6	Primary Operations across geographical areas		
	Various states	10%	100%
	Outside country	40%	0%
	Both	40%	0%
	Only Local	10%	0%

S.No.	Parameters	Punjab	Rajasthan
7	Units producing goods under reservation		
	Producing goods under reserved category	100%	0%
	Not producing goods under reserved category	0%	100%
8	Vision for growth		
	Would like to remain as SSI	50%	100%
	Would like to grow into a larger unit	50%	0%
9	Value of Plant and Machinery		
	Upto Rs. 10 lakh	70%	67%
	10-25 lakhs	0%	33%
	25-60 lakhs	20%	0%
	60-75 lakhs	10%	0%
	75 lakhs-1 crore	0%	0%
10	Capacity Utilization		
	Upto 20%	0%	0%
	20-40%	10%	0%
	40-60%	70%	67%
	60-80%	10%	33%
	80-100%	10%	0%
11	Use of Information Technology		
	Units using IT	90%	33%
	Units not using IT	10%	67%
12	Usage of Intranet		
	Units using Intranet	40%	0%
	Units Not using Intranet	60%	100%
13	Usage of Internet		
	Units using Internet	80%	0%
	Units not using Internet	20%	100%
14	Are there regular exchanges and interaction on technological information between your unit and outside		
	Yes	20%	33%
	No	80%	67%
15	Awareness of the World Trade Organisation		
	Units aware of WTO	80%	33%
	Units not aware of WTO	20%	67%
16	Whether the unit has R&D department		
	Yes	70%	0%

S.No.	Parameters	Punjab	Rajasthan
	No	30%	100%
17	Reasons for not having R&D department		
	No need was felt	17%	0%
	No competition	0%	0%
	Financial constraint	0%	17%
	Lack of infrastructure	17%	8%
	Lack of information	0%	0%
	Buy it from outside agencies	8%	0%
	Lack of knowledge about R&D	0%	0%
	Others	58%	75%
18	Number of Employees		
	2002-2001	705	21
	1999-2000	650	21
	1998-1999	490	21
	1997-1998	272	21
	1996-1997	268	14
	Total	2385	98
19	Turnover (Rs. lakhs)		
	2000-2001	4304	95
	1999-2000	4042	95
	1998-1999	2925	80
	1997-1998	2356	65
	1996-1997	2175	0
	Total	15802	335
20	Exports (Rs. lakhs)		
	2000-2001	39-82	
	1999-2000	3724	
	1998-1999	2335	
	1997-1998	1986	
	1996-1997	1933	

Diesel Engines Product Cluster

S.No.	Parameters	Tamil Nadu	Maharashtra
1	Age of the unit		
	1-3 years	0%	0%
	4-7 years	33%	0%
	8-10 years	33%	10%
	11-20 years	0%	70%
	21-30 years	0%	20%
	> 30 years	33%	0%
2	Ownership Pattern of Units		
	Sole Proprietorship	33%	30%
	Partnership	33%	50%
	Joint stock company	33%	20%
	Private Limited	0%	0%
	Public Limited	0%	0%
3	Origin Of Unit		
	Independent Startup	100%	90%
	Takeover/setup by another firm	0%	0%
	Spin off	0%	0%
	Family business	0%	10%
	Others	0%	0%
4	Experience & Qualification of owner/manager		
	Research/Engineering experience	33%	30%
	Research/Engineering qualification	33%	20%
	Managerial experience	33%	0%
	Managerial qualifications	0%	40%
	Family business with no formal qualification	0%	10%
	Others	0%	0%
5	Type of Unit		
	SSI	100%	100%
	Ancillary Industry	0%	0%
	Export Oriented Units	0%	0%
	Subsidiary	0%	0%
6	Primary Operations across geographical areas		
	Various states	33%	80%
	Outside country	0%	0%
	Both	0%	0%
	Only Local	66%	20%

S.No.	Parameters	Tamil Nadu	Maharashtra
7	Units producing goods under reservation		
	Producing goods under reserved category	100%	70%
	Not producing goods under reserved category	0%	0%
	Not mentioned	0%	30%
8	Vision for growth		
	Would like to remain as SSI	66%	60%
	Would like to grow into a larger unit	33%	10%
	No opinion	0%	30%
9	Value of Plant and Machinery		
	Upto Rs. 10 lakh	100%	60%
	10-25 lakhs	0%	40%
	25-60 lakhs	0%	0%
	60-75 lakhs	0%	0%
	75 lakhs-1 crore	0%	0%
10	Capacity Utilization		
	Upto 20%	0%	0%
	20-40%	33%	0%
	40-60%	33%	0%
	60-80%	33%	50%
	80-100%	0%	50%
11	Use of Information Technology		
	Units using IT	66%	50%
	Units not using IT	33%	50%
12	Usage of Intranet		
	Units using Intranet	66%	40%
	Units Not using Intranet	33%	60%
13	Usage of Internet		
	Units using Internet	66%	10%
	Units not using Internet	33%	90%
14	Are there regular exchanges and interaction on technological information between your unit and outside		
	Yes	33%	90%
	No	67%	10%
15	Awareness of the World Trade Organisation		
	Units aware of WTO	33%	70%
	Units not aware of WTO	67%	30%
16	Whether the unit has R&D department		

S.No.	Parameters	Tamil Nadu	Maharashtra
	Yes	0%	60%
	No	100%	40%
17	Reasons for not having R&D department		
	No need was felt	13%	13%
	No competition	0%	0%
	Financial constraint	23%	13%
	Lack of infrastructure	5%	25%
	Lack of information	8%	6%
	Buy it from outside agencies	0%	13%
	Lack of knowledge about R&D	0%	1%
	Others	53%	25%
18	Number of Employees		
	2002-2001	55	195
	1999-2000	52	187
	1998-1999	47	179
	1997-1998	37	163
	1996-1997	32	161
	Total	223	885
19	Turnover (Rs. lakhs)		
	2000-2001	78	576
	1999-2000	78	523
	1998-1999	76	507
	1997-1998	70	435
	1996-1997	63	393
	Total	365	2434

Powerlooms Product Cluster

S.No.	Parameters	Uttar Pradesh	Andhra Pradesh	Karnataka
1	Age of the unit			
	1-3 years	0%	0%	10%
	4-7 years	0%	20%	0%
	8-10 years	10%	10%	10%
	11-20 years	80%	70%	20%
	21-30 years	10%	0%	30%
	> 30 years	0%	0%	30%
2	Ownership Pattern of Units			
	Sole Proprietorship	40%	100%	100%
	Partnership	0%	0%	0%
	Joint stock company	0%	0%	0%
	Private Limited	0%	0%	0%
	Public Limited	60%	0%	0%
3	Origin Of Unit			
	Independent Startup	40%	0%	10%
	Takeover/setup by another firm	0%	0%	0%
	Spin off	0%	0%	0%
	Family business	60%	90%	90%
	Others	0%	10%	0%
4	Experience & Qualification of owner/manager			
	Research/Engineering experience	0%	0%	0%
	Research/Engineering qualification	0%	0%	0%
	Managerial experience	40%	0%	10%
	Managerial qualifications	0%	0%	0%
	Family business with no formal qualification	50%	90%	60%
	Others	10%	10%	30%
5	Type of Unit			
	SSI	80%	100%	80%
	Ancillary Industry	0%	0%	0%
	Export Oriented Units	20%	0%	10%
	Subsidiary	0%	0%	0%
6	Primary Operations across geographical areas			
	Various states	20%	20%	0%
	Outside country	0%	0%	0%
	Both	0%	0%	0%
	Only Local	80%	80%	100%

S.No.	Parameters	Uttar Pradesh	Andhra Pradesh	Karnataka
7	Units producing goods under reservation			
	Producing goods under reserved category	0%	0%	70%
	Not producing goods under reserved category	70%	40%	10%
	Not mentioned	30%	60%	20%
8	Vision for growth			
	Would like to remain as SSI	0%	80%	60%
	Would like to grow into a larger unit	20%	20%	40%
	No opinion	80%	0%	0%
9	Value of Plant and Machinery			
	Upto Rs. 10 lakh	40%	0%	90%
	10-25 lakhs	0%	100%	10%
	25-60 lakhs	0%	0%	0%
	60-75 lakhs	0%	0%	0%
	75 lakhs-1 crore	0%	0%	0%
	Don,t know	60%	0%	0%
10	Capacity Utilization			
	Upto 20%	0%	0%	0%
	20-40%	0%	0%	0%
	40-60%	0%	70%	0%
	60-80%	0%	30%	60%
	80-100%	0%	0%	40%
	Not possible to quantify	100%	0%	0%
11	Use of Information Technology			
	Units using IT	0%	0%	30%
	Units not using IT	100%	100%	70%
12	Usage of Intranet			
	Units using Intranet	0%	0%	30%
	Units Not using Intranet	100%	100%	70%
13	Usage of Internet			
	Units using Internet	0%	0%	10%
	Units not using Internet	100%	100%	90%
14	Are there regular exchanges and interaction on technological information between your unit and outside			
	Yes	0%	0%	0%
	No	100%	100%	100%
15	Awareness of the World Trade Organisation			
	Units aware of WTO		90%	0%

S.No.	Parameters	Uttar Pradesh	Andhra Pradesh	Karnataka
	Units not aware of WTO		10% 100%	100%
16	Reasons for not having R&D department			
	No need was felt		8% 20%	5%
	No competition		0% 0%	0%
	Financial constraint		13% 5%	10%
	Lack of infrastructure		0% 5%	3%
	Lack of information		0% 0%	20%
	Buy it from outside agencies		0% 0%	5%
	Lack of knowledge about R&D		0% 0%	3%
	Others		80% 70%	50%
17	Whether the unit has R&D department			
	Yes		0% 0%	0%
	No		100% 100%	100%
18	Number of Employees			
	2002-2001		312 87	167
	1999-2000		309 76	167
	1998-1999		300 64	179
	1997-1998		290 51	182
	1996-1997		289 45	184
	Total		1500 323	879
19	Turnover (Rs. lakhs)			
	2000-2001		78 64	416
	1999-2000		78 56	451
	1998-1999		76 47	503
	1997-1998		70 38	636
	1996-1997		63 31	646
	Total		365 235	2652
20	Exports (Rs. lakhs)			
	2000-2001		8	
	1999-2000		8	
	1998-1999		8	
	1997-1998		8	
	1996-1997		7	

Readymade Garments Product Cluster

S.No.	Parameters	Uttar Pradesh	Gujarat	Delhi
1	Age of the unit			
	1-3 years	60%	0%	0%
	4-7 years	20%	0%	20%
	8-10 years	10%	0%	40%
	11-20 years	10%	80%	10%
	21-30 years	0%	20%	30%
	> 30 years	0%	0%	0%
2	Ownership Pattern of Units			
	Sole Proprietorship	60%	50%	50%
	Partnership	20%	40%	30%
	Joint stock company	0%	0%	0%
	Private Limited	20%	0%	20%
	Public Limited	0%	10%	0%
3	Origin Of Unit			
	Independent Startup	90%	100%	70%
	Takeover/setup by another firm	0%	0%	10%
	Spin off	0%	0%	0%
	Family business	10%	0%	20%
4	Experience & Qualification of owner/manager			
	Research/Engineering experience	10%	0%	10%
	Research/Engineering qualification	0%	0%	0%
	Managerial experience	10%	90%	0%
	Managerial qualifications	80%	0%	0%
	Family business with no formal qualification	0%	10%	80%
	Others	0%	0%	10%
5	Type of Unit			
	SSI	30%	20%	30%
	Ancillary Industry	10%	20%	0%
	Export Oriented Units	60%	0%	70%
	Subsidiary	0%	60%	0%
6	Primary Operations across geographical areas			
	Various states	0%	20%	0%
	Outside country	30%	10%	50%
	Both	10%	0%	30%
	Only Local	60%	70%	20%

S.No.	Parameters	Uttar Pradesh	Gujarat	Delhi
7	Units producing goods under reservation			
	Producing goods under reserved category	30%	20%	80%
	Not producing goods under reserved category	70%	80%	0%
	Not mentioned	0%	0%	20%
8	Vision for growth			
	Would like to remain as SSI	0%	90%	50%
	Would like to grow into a larger unit	100%	10%	50%
9	Value of Plant and Machinery			
	Upto Rs. 10 lakh	40%	20%	50%
	10-25 lakhs	10%	60%	40%
	25-60 lakhs	40%	20%	0%
	60-75 lakhs	0%	0%	0%
	75 lakhs-1 crore	10%	0%	0%
	Don,t know	0%	0%	10%
10	Capacity Utilization			
	Upto 20%	0%	0%	10%
	20-40%	0%	0%	0%
	40-60%	30%	20%	60%
	60-80%	20%	80%	20%
	80-100%	50%	0%	0%
	Not possible to quantify	0%	0%	10%
11	Use of Information Technology			
	Units using IT	80%	20%	80%
	Units not using IT	20%	80%	20%
12	Usage of Intranet			
	Units using Intranet	10%	10%	20%
	Units Not using Intranet	90%	90%	80%
13	Usage of Internet			
	Units using Internet	60%	30%	90%
	Units not using Internet	40%	70%	10%
14	Are there regular exchanges and interaction on technological information between your unit and outside			
	Yes	40%	0%	0%
	No	60%	100%	100%
15	Awareness of the World Trade Organisation			
	Units aware of WTO	100%	40%	40%

S.No.	Parameters	Uttar Pradesh	Gujarat	Delhi
	Units not aware of WTO	0%	60%	60%
16	Whether the unit has R&D department			
	Yes	100%	0%	30%
	No	0%	100%	70%
17	Reasons for not having R&D department			
	No need was felt		5%	18%
	No competition		0%	0%
	Financial constraint		10%	4%
	Lack of infrastructure		8%	0%
	Lack of information		13%	0%
	Buy it from outside agencies		0%	0%
	Lack of knowledge about R&D		0%	0%
	Others		65%	79%
18	Number of Employees			
	2002-2001	689	393	718
	1999-2000	645	375	693
	1998-1999	372	345	666
	1997-1998	354	325	641
	1996-1997	106	286	626
	Total	2166	1724	3344
19	Turnover (Rs. lakhs)			
	2000-2001	4382	2236	5924
	1999-2000	3661	2162	5438
	1998-1999	2626	2078	5090
	1997-1998	2365	1999	4720
	1996-1997	1140	1216	4715
	Total	14174	9691	25887
20	Exports (Rs. lakhs)			
	2000-2001	3657	438	5674
	1999-2000	2992	386	5197
	1998-1999	2062	323	4861
	1997-1998	1803	240	4501
	1996-1997	645	90	4500
	Total	11159	1477	24733

Pharmaceuticals Product Cluster

S.No.	Parameters	Maharashtra	Andhra Pradesh	Goa
1	Age of the unit			
	1-3 years	30%	0%	0%
	4-7 years	40%	40%	0%
	8-10 years	20%	30%	50%
	11-20 years	0%	20%	0%
	21-30 years	0%	0%	50%
	> 30 years	10%	10%	0%
2	Ownership Pattern of Units			
	Sole Proprietorship	0%	0%	0%
	Partnership	0%	0%	0%
	Joint stock company	0%	0%	0%
	Private Limited	90%	30%	50%
	Public Limited	10%	70%	50%
3	Origin Of Unit			
	Independent Startup	70%	70%	0%
	Takeover/setup by another firm	20%	10%	100%
	Spin off	0%	10%	0%
	Family business	10%	0%	0%
	Others	0%	10%	0%
4	Experience & Qualification of owner/manager			
	Research/Engineering experience	30%	30%	0%
	Research/Engineering qualification	40%	10%	0%
	Managerial experience	10%	40%	0%
	Managerial qualifications	10%	10%	50%
	Family business with no formal qualification	10%	0%	0%
	Others	0%	10%	50%
5	Type of Unit			
	SSI	100%	100%	100%
	Ancillary Industry	0%	0%	0%
	Export Oriented Units	0%	0%	0%
	Subsidiary	0%	0%	0%
6	Primary Operations across geographical areas			
	Various states	70%	40%	0%
	Outside country	0%	30%	100%
	Both	30%	20%	0%
	Only Local	0%	0%	0%

S.No.	Parameters	Maharashtra	Andhra Pradesh	Goa
7	Units producing goods under reservation			
	Producing goods under reserved category	30%	0%	50%
	Not producing goods under reserved category	60%	50%	50%
	Not mentioned	10%	50%	0%
8	Vision for growth			
	Would like to remain as SSI	20%	10%	0%
	Would like to grow into a larger unit	70%	90%	100%
	No opinion	10%	0%	0%
9	Value of Plant and Machinery			
	Upto Rs. 10 lakh	30%	0%	0%
	10-25 lakhs	30%	30%	0%
	25-60 lakhs	40%	40%	0%
	60-75 lakhs	0%	20%	0%
	75 lakhs-1 crore	0%	10%	50%
	Don't know	0%	0%	50%
10	Capacity Utilization			
	Upto 20%	0%	0%	0%
	20-40%	10%	0%	0%
	40-60%	40%	40%	0%
	60-80%	50%	60%	0%
	80-100%	0%	0%	100%
	Not possible to quantify	0%	0%	0%
11	Use of Information Technology			
	Units using IT	90%	100%	100%
	Units not using IT	10%	0%	0%
	No Response	46%	68%	38%
12	Usage of Intranet			
	Units using Intranet	90%	30%	100%
	Units Not using Intranet	10%	70%	0%
13	Usage of Internet			
	Units using Internet	70%	80%	100%
	Units not using Internet	30%	20%	0%
14	Are there regular exchanges and interaction on technological information between your unit and outside			
	Yes	70%	100%	50%
	No	30%	0%	50%

S.No.	Parameters	Maharas htra	Andhra Pradesh	Goa
15	Awareness of the World Trade Organisation			
	Units aware of WTO	70%	100%	100%
	Units not aware of WTO	30%	0%	0%
16	Whether the unit has R&D department			
	Yes	40%	100%	100%
	No	60%	0%	0%
17	Reasons for not having R&D department			
	No need was felt	13%		
	No competition	0%		
	Financial constraint	13%		
	Lack of infrastructure	13%		
	Lack of information	21%		
	Buy it from outside agencies	0%		
	Lack of knowledge about R&D	1%		
	Others	38%		
18	Number of Employees			
	2000-2001	298	958	705
	1999-2000	272	919	705
	1998-1999	210	829	705
	1997-1998	175	739	705
	1996-1997	133	702	705
	Total	1088	4147	3525
19	Turnover (Rs. lakhs)			
	2000-2001	1049	5060	5000
	1999-2000	799	3622	5000
	1998-1999	633	2626	3800
	1997-1998	562	2398	3300
	1996-1997	518	1874	3000
	Total	3561	15580	20100

Engineering Industry & Fabrication Product Cluster

S.No.	Parameters	Tamil Nadu	Maharashtra	Jharkhand	Madhya Pradesh
1	Age of the unit				
	1-3 years	0%	20%	10%	0%
	4-7 years	10%	40%	0%	20%
	8-10 years	10%	20%	10%	0%
	11-20 years	70%	10%	40%	40%
	21-30 years	10%	0%	30%	40%
	> 30 years	0%	10%	10%	0%
2	Ownership Pattern of Units				
	Sole Proprietorship	50%	30%	80%	20%
	Partnership	50%	30%	20%	70%
	Joint stock company	0%	10%	0%	0%
	Private Limited	0%	30%	0%	10%
	Public Limited	0%	0%	0%	0%
3	Origin Of Unit				
	Independent Startup	100%	90%	90%	100%
	Takeover/setup by another firm	0%	0%	10%	0%
	Spin off	0%	10%	0%	0%
	Family business	0%	0%	0%	0%
	Others	0%	0%	0%	0%
4	Experience & Qualification of owner/manager				
	Research/Engineering experience	10%	50%	0%	0%
	Research/Engineering qualification	60%	20%	90%	60%
	Managerial experience	20%	0%	0%	10%
	Managerial qualifications	10%	10%	10%	10%
	Family business with no formal qualification	0%	10%	0%	10%
	Others	0%	10%	0%	10%
5	Type of Unit				
	SSI	100%	90%	70%	90%
	Ancillary Industry	0%	10%	30%	10%
	Export Oriented Units	0%	0%	0%	0%
	Subsidiary	0%	0%	0%	0%
6	Primary Operations across geographical areas				
	Various states	0%	80%	60%	60%
	Outside country	0%	0%	0%	0%
	Both	0%	0%	0%	0%
	Only Local	100%	20%	40%	40%

S.No.	Parameters	Tamil Nadu	Maharashtra	Jharkhand	Madhya Pradesh
7	Units producing goods under reservation				
	Producing goods under reserved category	0%	20%	0%	60%
	Not producing goods under reserved category	100%	80%	0%	30%
	Not mentioned	0%	0%	100%	10%
8	Vision for growth				
	Would like to remain as SSI	0%	80%	0%	50%
	Would like to grow into a larger unit	100%	20%	100%	50%
9	Value of Plant and Machinery				
	Upto Rs. 10 lakh	40%	30%	20%	100%
	10-25 lakhs	60%	40%	70%	0%
	25-60 lakhs	0%	20%	10%	0%
	60-75 lakhs	0%	0%	0%	0%
	75 lakhs-1 crore	0%	10%	0%	0%
10	Capacity Utilization				
	Upto 20%	0%	10%	0%	10%
	20-40%	0%	20%	20%	10%
	40-60%	50%	20%	70%	10%
	60-80%	50%	20%	10%	60%
	80-100%	0%	30%	0%	10%
11	Use of Information Technology				
	Units using IT	100%	70%	90%	80%
	Units not using IT	0%	30%	10%	20%
12	Usage of Intranet				
	Units using Intranet	0%	0%	60%	30%
	Units Not using Intranet	100%	100%	40%	70%
13	Usage of Internet				
	Units using Internet	100%	60%	60%	70%
	Units not using Internet	0%	40%	40%	30%
14	Are there regular exchanges and interaction on technological information between your unit and outside				
	Yes	100%	20%	100%	40%
	No	0%	80%	0%	60%
15	Awareness of the World Trade Organisation				
	Units aware of WTO	60%	90%	100%	30%
	Units not aware of WTO	40%	10%	0%	70%
16	Whether the unit has R&D department				
	Yes	0%	0%	80%	0%

S.No.	Parameters	Tamil Nadu	Maharashtra	Jharkhand	Madhya Pradesh
	No	100%	100%	20%	100%
17	Reasons for not having R&D department				
	No need was felt	0%	16%	0%	10%
	No competition	0%	3%	0%	0%
	Financial constraint	0%	6%	13%	10%
	Lack of infrastructure	0%	13%	0%	0%
	Lack of information	0%	13%	0%	0%
	Buy it from outside agencies	0%	0%	0%	0%
	Lack of knowledge about R&D	25%	5%	0%	3%
	Others	75%	44%	88%	78%
18	Number of Employees				
	2000-2001	208	220	233	311
	1999-2000	208	229	205	310
	1998-1999	203	189	196	317
	1997-1998	200	197	203	309
	1996-1997	190	190	200	296
	Total	1009	1025	1037	1543
19	Turnover (Rs. lakhs)				
	2000-2001	1059	706	571	1635
	1999-2000	1050	780	480	1415
	1998-1999	1025	775	458	1544
	1997-1998	1015	567	442	887
	1996-1997	986	490	426	821
	Total	5135	3317	2377	6302

Electronics Product Cluster

S.No.	Parameters	UP	Maharashtra	Andhra Pradesh	Karnataka	Goa
1	Age of the unit					
	1-3 years	30%	7%	10%	22%	50%
	4-7 years	20%	0%	20%	11%	50%
	8-10 years	30%	27%	10%	0%	0%
	11-20 years	20%	27%	50%	67%	0%
	21-30 years	0%	27%	0%	0%	0%
	> 30 years	0%	20%	10%	0%	0%
2	Ownership Pattern of Units					
	Sole Proprietorship	20%	20%	0%	33%	0%
	Partnership	30%	27%	50%	33%	0%
	Joint stock company					
	Private Limited	40%	53%	40%	33%	50%
	Public Limited	10%	0%	10%	0%	50%
3	Origin Of Unit					
	Independent Startup	100%	80%	90%	100%	100%
	Takeover/setup by another firm	0%	13%	0%	0%	0%
	Spin off	0%	0%	0%	0%	0%
	Family business	0%	7%	10%	0%	0%
	Others	0%	0%	0%	0%	0%
4	Experience & Qualification of owner/manager0					
	Research/Engineering experience	30%	47%	60%	44%	100%
	Research/Engineering qualification	40%	33%	20%	11%	0%
	Managerial experience	0%	0%	20%	22%	0%
	Managerial qualifications	0%	13%	0%	22%	0%
	Family business with no formal qualification	10%	0%	0%	0%	0%
	Others	20%	7%	0%	0%	0%
5	Type of Unit					
	SSI	90%	93%	100%	89%	50%
	Ancillary Industry	0%	0%	0%	11%	50%
	Export Oriented Units	0%	7%	0%	0%	0%
	Subsidiary	10%	0%	0%	0%	0%
6	Primary Operations across geographical areas					
	Various states	60%	60%	60%	44%	50%
	Outside country	0%	7%	0%	0%	0%
	Both	30%	20%	40%	11%	50%

S.No.	Parameters	UP	Maharashtra	Andhra Pradesh	Karnataka	Goa
7	Only Local	10%	13%	0%	44%	0%
	Units producing goods under reservation					
	Producing goods under reserved category	100%	13%	20%	89%	0%
	Not producing goods under reserved category	0%	87%	80%	11%	100%
8	Not mentioned goods	0%	0%	0%	0%	0%
	Vision for growth					
	Would like to remain as SSI	10%	20%	50%	22%	0%
9	Would like to grow into a larger unit	90%	73%	50%	78%	100%
	No opinion	0%	7%	0%	0%	0%
	Value of Plant and Machinery					
10	Upto Rs. 10 lakh	70%	67%	20%	78%	0%
	10-25 lakhs	20%	13%	20%	22%	50%
	25-60 lakhs	10%	13%	30%	0%	0%
	60-75 lakhs	0%	7%	10%	0%	0%
	75 lakhs-1 crore	0%	0%	10%	0%	50%
	Don't know	0%	0%	10%	0%	0%
11	Capacity Utilization					
	Upto 20%	10%	7%	0%	0%	0%
	20-40%	50%	7%	10%	0%	0%
	40-60%	20%	7%	0%	22%	0%
	60-80%	20%	60%	20%	56%	0%
	80-100%	0%	13%	50%	11%	100%
12	Not possible to quantify	0%	0%	20%	11%	0%
	Use of Information Technology					
	Units using IT	100%	93%	100%	67%	100%
13	Units not using IT	0%	7%	0%	33%	0%
	Usage of Intranet					
	Units using Intranet	0%	73%	70%	33%	50%
14	Units Not using Intranet	100%	27%	30%	67%	50%
	Usage of Internet					
	Units using Internet	90%	93%	100%	89%	100%
15	Units not using Internet	10%	7%	0%	11%	0%
	Are there regular exchanges and interaction on technological information between your unit and outside					
	Yes	90%	93%	100%	67%	100%
	No	10%	7%	0%	33%	0%

S.No.	Parameters	UP	Maharashtra	Andhra Pradesh	Karnataka	Goa
15	Awareness of the World Trade Organisation					
	Units aware of WTO	90%	67%	70%	89%	100%
	Units not aware of WTO	10%	33%	30%	11%	0%
16	Whether the unit has R&D department					
	Yes	70%	80%	60%	67%	50%
	No	30%	20%	40%	33%	50%
17	Reasons for not having R&D department					
	No need was felt	8%	8%	6%	0%	25%
	No competition	0%	8%	0%	8%	0%
	Financial constraint	8%	8%	0%	17%	0%
	Lack of infrastructure	0%	8%	6%	25%	0%
	Lack of information	8%	0%	19%	0%	0%
	Buy it from outside agencies	0%	8%	0%	0%	0%
	Lack of knowledge about R&D	0%	1%	0%	0%	0%
	Others	75%	50%	69%	50%	75%
18	Number of Employees					
	2000-2001	236	411	454	360	56
	1999-2000	241	380	437	274	63
	1998-1999	154	370	402	246	63
	1997-1998	148	348	327	231	63
	1996-1997	150	330	235	206	63
	Total	929	1839	1855	1317	308
19	Turnover (Rs. lakhs)					
	2000-2001	1589	1639	4341	1511	2300
	1999-2000	1699	1383	3765	886	2450
	1998-1999	1450	1175	2971	816	2200
	1997-1998	1232	970	1768	734	1700
	1996-1997	1180	871	1233	569	1700
	Total	7150	6038	14078	4516	10350
20	Exports (Rs. lakhs)					
	2000-2001					
	1999-2000		59	1645	374	
	1998-1999		89	1433	176	
	1997-1998		58	1333	80	
	1996-1997		32	537	65	
			40	19	60	

Auto Components Product Cluster

S.No.	Parameters	Punjab	Haryana	Maharashtra	Jharkhand	Delhi
1	Age of the unit					
	1-3 years	0%	0%	0%	0%	0%
	4-7 years	0%	10%	30%	10%	0%
	8-10 years	0%	10%	10%	0%	0%
	11-20 years	0%	30%	50%	50%	50%
	21-30 years	30%	10%	0%	40%	50%
	> 30 years	70%	40%	10%	0%	0%
2	Ownership Pattern of Units					
	Sole Proprietorship	10%	20%	30%	40%	10%
	Partnership	80%	10%	20%	40%	40%
	Joint stock company					
	Private Limited	10%	40%	50%	20%	50%
	Public Limited	0%	30%	0%	0%	0%
3	Origin Of Unit					
	Independent Startup	40%	80%	90%	90%	80%
	Takeover/setup by another firm	10%	0%	10%	0%	0%
	Spin off	0%	0%	0%	0%	10%
	Family business	50%	20%	0%	10%	10%
	Others	0%	0%	0%	0%	0%
4	Experience & Qualification of owner/manager					
	Research/Engineering experience	10%	0%	20%	20%	60%
	Research/Engineering qualification	0%	10%	50%	20%	30%
	Managerial experience	0%	30%	30%	20%	0%
	Managerial qualifications	90%	10%	0%	10%	0%
	Family business with no formal qualification	0%	50%	0%	30%	10%
	Others	0%	0%	0%	0%	0%
5	Type of Unit					
	SSI	100%	70%	100%	50%	90%
	Ancillary Industry	0%	0%	0%	50%	0%
	Export Oriented Units	0%	0%	0%	0%	10%
	Subsidiary	0%	30%	0%	0%	0%
6	Primary Operations across geographical areas					
	Various states	60%	80%	70%	10%	50%

S.No.	Parameters	Punjab	Haryana	Maharashtra	Jharkhand	Delhi
	Outside country	0%	20%	0%	0%	0%
	Both	30%	0%	10%	0%	20%
	Only Local	10%	0%	20%	90%	30%
7	Units producing goods under reservation					
	Producing goods under reserved category	10%	10%	30%	0%	10%
	Not producing goods under reserved category	80%	90%	70%	40%	50%
	Not mentioned	10%	0%	0%	60%	40%
8	Vision for growth					
	Would like to remain as SSI	20%	70%	20%	30%	10%
	Would like to grow into a larger unit	80%	10%	70%	70%	90%
	No opinion	0%	20%	10%	0%	0%
9	Value of Plant and Machinery					
	Upto Rs. 10 lakh	80%	30%	40%	40%	60%
	10-25 lakhs	0%	70%	50%	50%	10%
	25-60 lakhs	0%	0%	0%	10%	20%
	60-75 lakhs	0%	0%	0%	0%	0%
	75 lakhs-1 crore	0%	0%	0%	0%	10%
	Don't know	20%	0%	10%	0%	0%
10	Capacity Utilization					
	Upto 20%	10%	40%	0%	0%	20%
	20-40%	10%	20%	10%	0%	0%
	40-60%	70%	30%	20%	0%	30%
	60-80%	10%	10%	40%	80%	50%
	80-100%	0%	0%	30%	10%	0%
	Not possible to quantify	0%	0%	0%	10%	0%
11	Use of Information Technology					
	Units using IT	50%	90%	100%	90%	90%
	Units not using IT	50%	10%	0%	10%	10%
12	Usage of Intranet					
	Units using Intranet	0%	10%	100%	90%	50%
	Units Not using Intranet	100%	90%	0%	10%	50%
13	Usage of Internet					
	Units using Internet	40%	70%	70%	80%	80%
	Units not using Internet	60%	30%	30%	20%	20%

S.No.	Parameters	Punjab	Haryana	Maharashtra	Jharkhand	Delhi
14	Are there regular exchanges and interaction on technological information between your unit and outside					
	Yes	0%	50%	90%	10%	20%
	No	100%	50%	10%	90%	80%
15	Awareness of the World Trade Organization					
	Units aware of WTO	10%	50%	60%	100%	50%
	Units not aware of WTO	90%	50%	40%	0%	50%
16	Whether the unit has R&D department					
	Yes	0%	80%	50%	60%	50%
	No	100%	20%	50%	40%	50%
17	Reasons for not having R&D department					
	No need was felt	23%	13%	15%	0%	10%
	No competition	0%	0%	0%	0%	0%
	Financial constraint	3%	13%	15%	13%	5%
	Lack of infrastructure	3%	13%	0%	6%	0%
	Lack of information	0%	0%	15%	6%	0%
	Buy it from outside agencies	0%	0%	0%	0%	0%
	Lack of knowledge about R&D	0%	0%	0%	1%	3%
	Others	73%	63%	55%	69%	70%
18	Number of Employees					
	2002-2001	203	1125	192	244	644
	1999-2000	216	1139	188	242	614
	1998-1999	232	1206	173	258	577
	1997-1998	241	1083	174	283	551
	1996-1997	246	1223	148	284	528
	Total	1138	5776	875	1311	2914
19	Turnover (Rs. lakhs)					
	2000-2001	565	3610	1638	432	5485
	1999-2000	574	3469	1402	442	4473
	1998-1999	607	3415	1017	457	3749
	1997-1998	585	2495	641	492	3331
	1996-1997	579	--	568	541	2838
	Total	2910	12989	5266	2364	19876

